Project No. 1251-100

Crude Oil Tank Farms Project, Agrood Area 30 (Module-1)

PETROJET Enppi EGPC

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

Sr.	Pre-Commissioning and Commissioning Dossier Index	Applicable (Yes/No)
1	Mechanical Completion Certificate (MCC)	
2	Ready for Startup Certificate (RFSU)	
3	System Punch Lists	
4	System Limits Marked Up P&ID	
5	System Index	
6	Piping Pre-Commissioning	
	6.01) Piping Test Packs	
	6.02) Piping Pre-commissioning Check Lists	
7	Piping Commissioning	
	7.01) Service Test, GLT, CLT and N2 Purging Certificates	
	7.02) Piping Commissioning Check Lists	

Sr.	Pre-Commissioning and Commissioning Dossier Index	Applicable (Yes/No)
8	Mechanical Pre-Commissioning	
	8.01) System Mechanical Index	
	8.02) Equipment Drawings	
	8.03) Equipment Datasheets	
	8.04) Boxing-up Certificates	

	8.05) Grouting Certificates	
	8.06) Pre-Alignment Certificates	
	8.07) Mechanical Pre-Commissioning Checklists	
9	**Mechanical Commissioning**	
	9.01) Final Alignment Certificates	
	9.02) Motor Solo Run Certificates	
	9.03) Mechanical Run Test (MRT) Certificates	
	9.04) Mechanical Commissioning Checklists	
	9.05) Mechanical Supplier Check Lists & Reports	
10	**Instrumentation Pre-Commissioning**	
	10.01) System Instrument Index	
	10.02) Instrument Data Sheets	
	10.03) Instrument Cable Schedule	
	10.04) System Instrumentation Wiring Diagram	
	10.05) Hook-up Drawing (Mechanical & Pneumatic)	
	10.06) Instruments Cables Schedule	
	10.07) Instruments Cables Laying Certificates	
	10.08) Instruments Cables Termination Certificates	
	10.09) Instruments Cables Testing Certificates	
	10.10) Instruments Calibration Certificates	
	10.11) Instrument Loop Checks Certificates	
	10.12) Instrumentation Pre-Commissioning Check Lists	
	10.13) Instrumentation Supplier Check Lists & Reports	
11	**Instrumentation Commissioning**	
	11.01) Instrumentation Function Test Certificates	
	11.02) Instrumentation Supplier Check Lists & Reports	
Sr.	**Pre-Commissioning and Commissioning Dossier Index**	**Applicable (Yes/No)**
12	**Electrical Pre-Commissioning**	
	12.01) System Electrical Index	
	12.02) Electrical Drawings	
	12.03) Motor Datasheets	
	12.04) Electrical Cables Schedule	
	12.05) Electrical Cables Laying Certificates	
	12.06) Electrical Cables Testing Certificates	
	12.07) Electrical Cables Termination Certificates	
	12.08) FAT Reports & Certificates	
	12.09) SAT Reports & Certificates	
	12.10) Electrical Pre-Commissioning Check Lists	
	12.11) Electrical Supplier Check Lists & Reports	

13	**Electrical Commissioning**	
	13.01) Electrical -Commissioning Check Lists	
	13.02) Electrical Supplier Check Lists & Reports	
14	**Red Marked-up Drawings**	
	14.01) P&ID	
	14.02) Instrumentation Drawings	
	14.03) Electrical Drawings	

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

1-Mechanical Completion Certificate (MCC)

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SYSTEM MECHANICAL COMPLETION CERTIFICATE (MCC)

PROJECT TITLE	:	CRUDE OIL TANK FARM PROJECT (AGROOD AREA)
PROJECT No	:	01251-100
SYSTEM NAME	:	Plant Area Lighting and Small Power System
SYSTEM ID	:	030-EL-014

THIS IS TO CERTIFY THAT:

- **THE ABOVE SYSTEM HAS BEEN FABRICATED, ERECTED, INSTALLED AND TESTED TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS, THE APPLICABLE CODES AND STANDARDS.**
- **ALL PRE-COMMISSIONING RELEVANT ACTIVITIES, TESTS, INSPECTIONS AND CHECKS HAVE BEEN CARRIED OUT FOR THIS SYSTEM AND FOUND ACCEPTABLE.**
- **Q/C DOCUMENTATION OF THE ABOVE SYSTEM HAS BEEN AUDITED BY THE CUSTOMER SITE QUALITY CONTROL AND FOUND COMPLETED.**
- **ALL PUNCH LIST ITEMS CATEGORY (A) IN THIS SUBSYSTEM WERE CLEARED.**
- **THIS SYTEM IS MECHANICALLY COMPLETED ON THE DATE AND READY FOR COMMISSIONING (RFC) WITH THE FOLLOWING EXCEPTIONS.**

EXCEPTIONS :

COMPANY	PETROJET	ENPPI	PMC
NAME	Sabry Seleem	Mohamed Abbass	Mohamed Ibrahim
TITLE	QC ESI engineer	Construction Mgr.	Elec. engineer
SIGNATURE			
DATE	31/01/2021		

Enppi

SYSTEM MECHANICAL COMPLETION CERTIFICATE (MCC)

PROJECT TITLE	:	CRUDE OIL TANK FARM(AGROOD AREA
PROJECT No	:	1251-100
SYSTEM NAME	:	Plant Area Lighting and Small Power System
SYSTEM ID	:	030-EL-014

THIS IS TO CERTIFY THAT:

- **THE ABOVE SYSTEM HAS BEEN FABRICATED, ERECTED, INSTALLED AND TESTED TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS, THE APPLICABLE CODES AND STANDARDS.**
- **ALL PRE-COMMISSIONING RELEVANT ACTIVITIES, TESTS, INSPECTIONS AND CHECKS HAVE BEEN CARRIED OUT FOR THIS SYSTEM AND FOUND ACCEPTABLE.**
- **Q/C DOCUMENTATION OF THE ABOVE SYSTEM HAS BEEN AUDITED BY THE CUSTOMER SITE QUALITY CONTROL AND FOUND COMPLETED.**
- **ALL PUNCH LIST ITEMS CATEGORY (A) IN THIS SUBSYSTEM WERE CLEARED.**
- **THIS SYTEM IS MECHANICALLY COMPLETED ON THE DATE AND READY FOR COMMISSIONING (RFC) WITH THE FOLLOWING EXCEPTIONS.**

EXCEPTIONS :

Partial for tank 03 & Tank 04

NOTE: ACCEPTANCE OF THE ABOVE SYSTEM DOES NOT RELIEVE ENPPI/CONSTRUCTION CONTRACTOR FROM THEIR CONTRACTUAL OBLIGATIONS AND RESPONSIBILITIES.

COMPANY	PETROJET	ENPPI	PPC
NAME		Mohamed Abbass	
TITLE			
SIGNATURE			
DATE			

10000-000-KM2-FRM-0002 (10/13)

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

2- Ready for Startup Certificate (RFSU)

Enppi

READY FOR START UP CERTIFICATE

PROJECT TITLE	: EGPC CRUDE OIL TANK FARMS PROJECT (AGROOD-30)
PROJECT No.	: 1251-100
SYSTEM /AREA /PLANT	: Plant Area Lighting and Small Power System
SYSTEM /AREA /PLANT No.	: 030-EL-014

THIS IS TO CERTIFY THAT:

- THE MENTIONED SYSTEM /AREA /PLANT IS READY FOR START UP WHERE ALL MECHANICAL WORKS, PRECOMMISSIONING AND COMMISSIONING ACTIVITIES HAVE BEEN SUCCESSFULLY COMPLETED.
- MECHANICAL COMPLETION CERTIFICATE(S) FOR THE MENTIONED SYSTEM / AREA / PLANT HAVE BEEN SIGNED.
- ISSUANCE OF THIS READY FOR START UP CERTIFICATE(S) SHALL NOT RELIEVE CONTRACTOR(S) FROM THEIR OBLIGATIONS TO COMPLETE THE REMAINING SYSTEMS NOR FROM THEIR WARRANTY OBLIGATIONS AND OTHER PROVISIONS OF THE CONTRACT.
- THE FOLLOWING EXCEPTIONS AGREED TO BE CLEARED AFTER START UP AND WILL NOT PREVENT START UP ACTIVITIES.

EXCEPTIONS :

COMPANY	ENPPI	PPC
NAME	Ahmed El Shafie	Mohamed Ibrahim
TITLE	Commissioning Manager	Elec. manager
SIGNATURE	Shafi	
DATE	10.10.21	

10000-000-EK8-FRM-0006 (03/15)

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

3- System Punch Lists

PETROJET | Enppi | **PUNCH LIST** | EGPC

PROJECT TITLE : CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PROJECT NUMBER : 01251-100 | **DISCIPLINE:** Electrical

SYSTEM NAME: Plant Area Lighting and Small Power System
Partial for TANK (03)

SYSTEM ID: 030-EL-014

SUB-SYSTEM NAME: | **SUB-SYSTEM ID:**

NO	DESCRIPTION	CAT	ACTION BY	DISP	CLEARANCE APPROVED BY	
1	lighting Circuit (QF02) to be installed	A	PTJ	Elec		
	lighting fixtures (2,3,9) in lighting Circuit					
	(QF09) to be installed	A	PTJ	Elec		
3	lighting fixtures (2,3,9) in lighting Circuit					
	(QF015) to be installed	A	PTJ	Elec		

CAT: CATEGORY(A,B,C) ,ACTION BY: (ENPPI,CONST.CONTRACTOR,SUPPLIER.....) , DISP: DESCIPLINE(PIP,MECH,ELECT,INST.....)

COMPANY	PTJ	ENPPI	PMC
NAME	Sabry Seleem		
SIGN.			
DATE	30 - 5 - 2021		

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

4- System Limits Marked Up P&ID

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

5- System Index

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

6- Piping Pre-Commissioning

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

6.01- Piping Test Packs

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

6.02- Piping Pre-commissioning Check Lists

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

7- Piping Commissioning

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

7.01- Service Test, GLT, CLT and N2 Purging Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

7.02- Piping Commissioning Check Lists

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

8- Mechanical pre-Commissioning

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

8.01- System Mechanical Index

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

8.02- Equipment Drawings

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

8.03- Equipment Datasheets

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

8.04- Boxing-up Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

8.05- Grouting Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

8.06- Pre-Alignment Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

8.07- Mechanical Pre-Commissioning Checklists

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

9- Mechanical Commissioning

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

9.01- Final Alignment Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

9.02- Motor Solo Run Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

9.03- Mechanical Run Test (MRT) Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

9.04- Mechanical Commissioning Checklists

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

9.05- Mechanical Supplier Check Lists & Reports

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10- Instrumentation Pre-Commissioning

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.01- System Instrument Index

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.02- Instrument Data Sheets

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.03- Instrument Cable Schedule

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.04- System Instrumentation Wiring Diagram

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.05- Hook-up Drawing (Mechanical & Pneumatic)

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.06- Instruments Cables Schedule

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.07- Instruments Cables Laying Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.08- Instruments Cables Termination Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.09- Instruments Cables Testing Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.10- Instruments Calibration Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.11- Instrument Loop Checks Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.12- Instrumentation Pre-Commissioning Check Lists

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

10.13- Instrumentation Supplier Check Lists & Reports

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

11- Instrumentation Commissioning

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

11.01) Instrumentation Function Test Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

11.02- Instrumentation Supplier Check Lists & Reports

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12- Electrical Pre-Commissioning

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

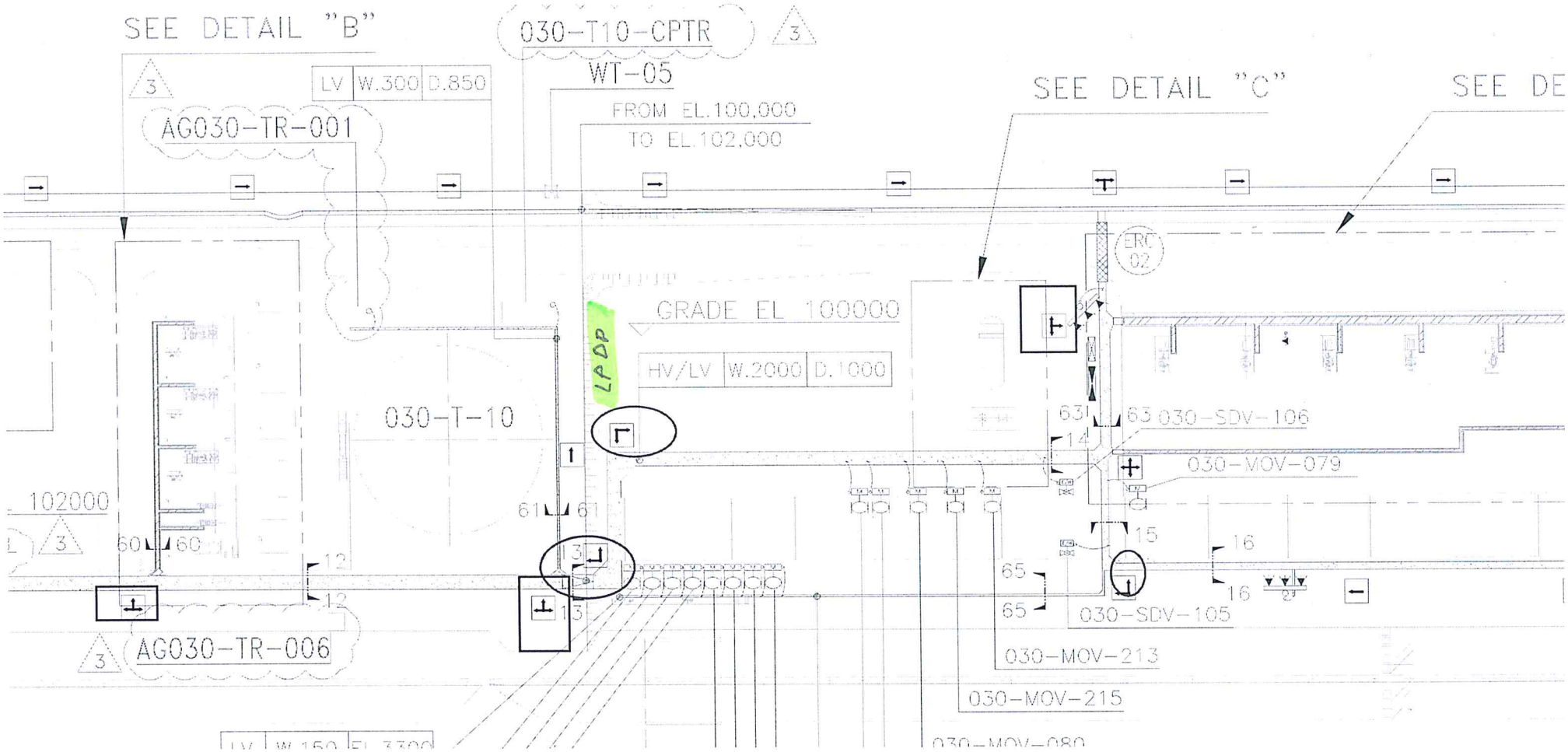
12.01- System Electrical Index

	System Description	Discipline	Tag Number	Tag Description	Form Type	Check Forms ID
030-EL-014	Plant Area lighting and small Power System	Electrical	030-LPDP - 1	Power Distrbution Panel	Checklist	EL-23 A /EL-24 A /EL-30 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E1-030-EPM1-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E1-030-EPM2-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E1-030-EPM3-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E1-030-EPM4-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E1-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E2-030-EPM1-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E2-030-EPM2-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E2-030-EPM3-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E2-030-EPM4-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E2-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E3-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E4-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E5-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	E6-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L10-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L1-030-EPM1-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L1-030-EPM2-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L1-030-EPM3-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L1-030-EPM4-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L1-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L11-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L12-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L13-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L2-030-EPM1-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L2-030-EPM2-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L2-030-EPM3-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L2-030-EPM4-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L2-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L3-030-EPM1-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L3-030-EPM2-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L3-030-EPM3-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L3-030-EPM4-FT	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L3-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L4-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L5-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L6-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L7-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L8-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	L9-030-LPDP-SF	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	N1-030-EPM1-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	N1-030-EPM2-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	N1-030-EPM3-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	N1-030-EPM4-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	N1-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	N2-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	N3-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	N4-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	N5-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	N6-030-LPDP-LTG	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P-030-LPDP-1	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-EPM1-CR-1	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-EPM2-CR-1	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-EPM3-CR-1	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-EPM4-CR-1	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-LPDP-CR-1	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-LPDP-CR-2	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-LPDP-CR-3	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-LPDP-CR-JB	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-WR-1	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-WR-2	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P1-030-WR-JB	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P2-030-LPDP-CR-1	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	[illegible]	[illegible]	[illegible]	[illegible]

030-EL-014	Plant Area lighting and small Power System	Electrical	P2-030-LPDP-CR-JB	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P2-030-WR-1	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P2-030-WR-2	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P3-030-LPDP-CR-1	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P3-030-LPDP-CR-2	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P3-030-LPDP-CR-3	LV Cable	Checklist	EL-31 A
030-EL-014	Plant Area lighting and small Power System	Electrical	P3-030-LPDP-CR-4	LV Cable	Checklist	EL-31 A

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12.02- Electrical Drawings


SEE DETAIL "B"
030-T10-CPTR
WT-05
FROM EL.100,000
TO EL.102,000
SEE DETAIL "C"
SEE DE
LV W.300 D.850
AG030-TR-001
ERC 02
GRADE EL 100000
HV/LV W.2000 D.1000
LPDP
030-T-10
102000
60 60
61 61
12
12
13
13
63 63
14
030-SDV-106
030-MOV-079
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16
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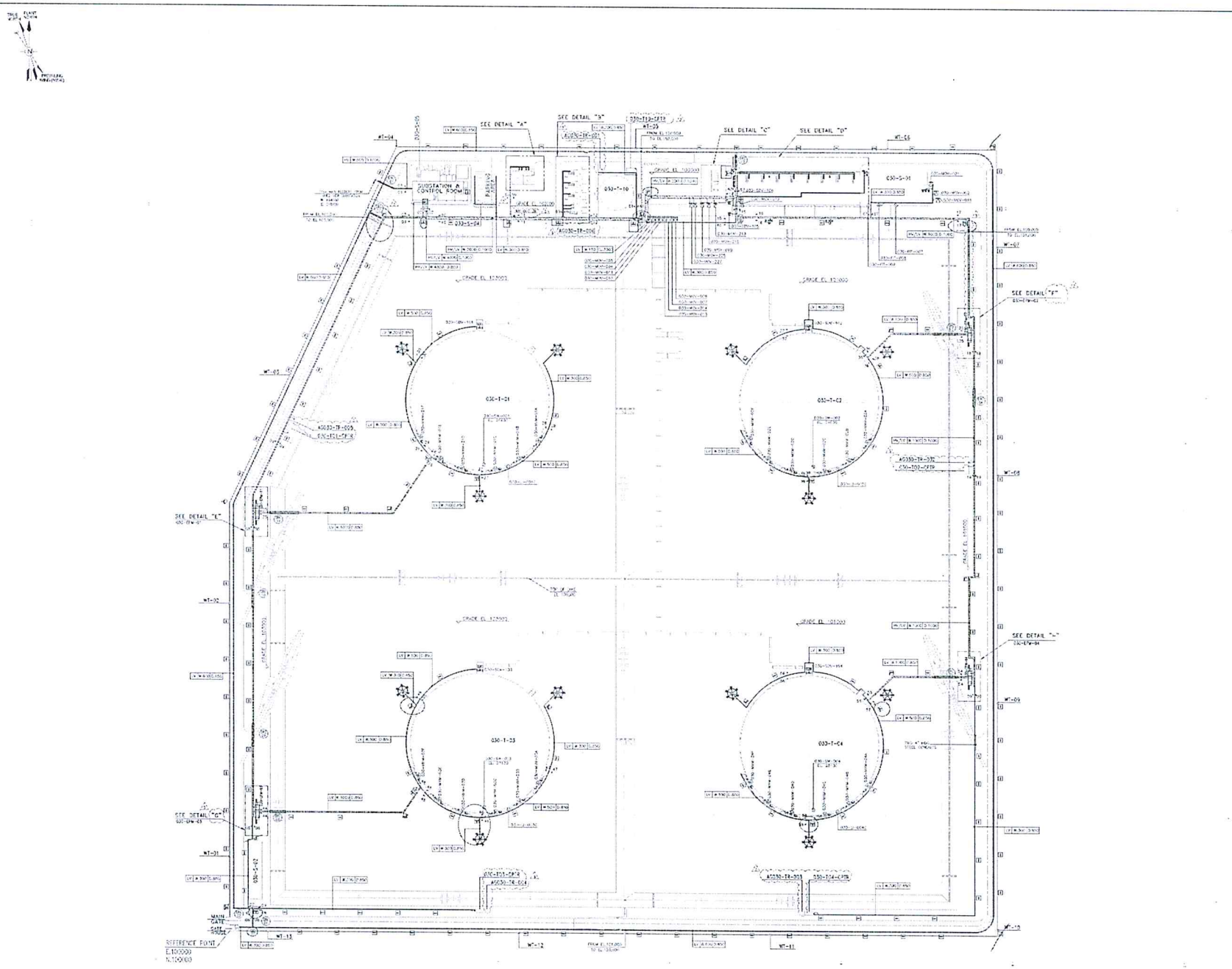
65
030-SDV-105
030-MOV-213
030-MOV-215
AG030-TR-006



REFERENCE DRAWINGS AND DOCUMENTS

01251-100-DW-WW-001	AGROOD AREA (MODULE-1) PLOT PLAN
01251-100-DW-EG-001	ELECTRICAL EARTH GRID
01251-100-DW-EG-001	AGROOD AREA (MODULE-1) ELECTRICAL CABLE SCHEDULE
01251-100-DW-LE-001	ELECTRICAL INSTRUMENT & JUNCTION BOX LAYOUT (SHEET 1)
01251-100-DW-EC-001	AGROOD AREA (MODULE-1) SUBSTATION CABLE ROUTING LAYOUT
01251-100-DW-EC-001	ELECTRICAL INSTALLATION DETAILS FOR POWER SYSTEM
01251-100-DW-EC-001	CONNECTION DIAGRAM (EQUIPMENT LAYOUT FOR AGROOD-01)

LEGEND

- DIRECT BURIED CABLE TRENCH
- CONCRETE CABLE TRENCH
- CABLE TRAY STRAIGHT LENGTH
- PERMANENT AND CONCRETE ROAD CROSSING
- CABLE TRAY VERTICAL OUTSIDE ELBOW (VO) 90 DEGREE
- CABLE PIPE IN GALVANIZED STEEL CONDUIT
- CABLE TRENCH MARKER (STRAIGHT PATH)
- CABLE TRENCH MARKER (RIGHT ANGLE PATH)
- CABLE TRENCH MARKER (TEE-SHAPE)
- CABLE TRENCH MARKER (CROSS)
- CABLE TRENCH MARKER (DOGLEGS TURN)
- MCC DISTRIBUTION PANEL
- LIGHTING/POWER DISTRIBUTION PANEL
- ELECTRICAL MOTOR
- ELECTRO-HYDRAULIC ON-OFF VALVE (SDV)
- MOTORIZED GATE SHUT
- MOTORIZED BUTTERFLY VALVE
- FIELD INSTRUMENT DEVICE
- MOTOR CONTROL STATION
- MOTOR ADAPTATION JUNCTION BOX
- 20M FLOOD LIGHTING TOWER, COMPLETE WITH 9X MH LED LIGHTING FIXTURES
- 10M FLOOD LIGHTING POLE, COMPLETE WITH THREE EX LED LIGHTING FIXTURES
- EX. INDOOR RECEPTACLE 5-PIN 125V, IN, FED 45A, 40A, 30A, SINGLE OR MANNING
- EX. INDOOR RECEPTACLE 5-PIN 125V, IN, FED 63A, 40A, 30A, SINGLE OR MANNING
- CABLE SECTION
- ELECTRICAL ROAD CROSSING

IDENTIFICATION

CABLE TRENCH TAG IDENTIFICATION

- NET DEPTH (IN mm) FROM BOTTOM OF TRENCH
- NET WIDTH (IN mm)
- LV (LOW VOLTAGE), HV (HIGH VOLTAGE)

STRAIGHT HORIZONTAL CABLE TRAY TAG IDENTIFICATION

- ELEVATION (IN mm) FROM BOTTOM OF CABLE TRAY
- WIDTH (IN mm)
- LV (LOW VOLTAGE), HV (HIGH VOLTAGE)

VERTICAL (VARIOUS) ELEVATION CABLE TRAY TAG IDENTIFICATION

- ELEVATION 2 (IN mm) FROM BOTTOM OF CABLE TRAY
- ELEVATION 1 (IN mm) FROM BOTTOM OF CABLE TRAY
- WIDTH (IN mm)
- LV (LOW VOLTAGE), HV (HIGH VOLTAGE)

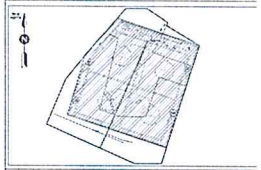
ROAD CROSSING IDENTIFICATION

- ELECTRICAL ROAD CROSSING
- MECHANICAL ROAD CROSSING

NOTES

1. FOR NOTES SEE SHEET 2 OF 2.

KEY PLAN



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2	1/2	ISSUED FOR CONSTRUCTION	R.M	S.M.A	M.R
1	7/8	RE-ISSUED FOR DESIGN	R.M	S.M.A	A.H
0	7/8	ISSUED FOR DESIGN	R.M	S.M.A	A.H

NOTICE

EGPC
THE EGYPTIAN GENERAL PETROLEUM CO.
الهيئة العامة المصرية للبترول
EGPC

COMPANY PROJ. No. : N/A
EGPC PROJ. No. : 01251/18
PROJECT : AGROOD AREA
الهيئة العامة المصرية للبترول
قطاع مشروعات الصعيد

EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE-1) OUTDOOR ELECTRICAL CABLE ROUTING LAYOUT

أنبي للهندسة والاستشارات البترولية والكيماوية
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE	DRAWING NUMBER	SHEET	REV.
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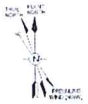
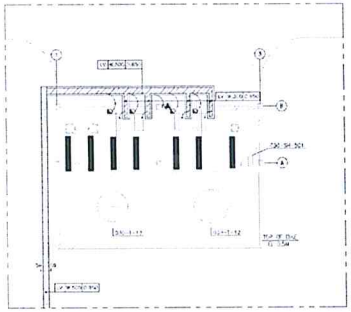
A0 SIZE 1189 x





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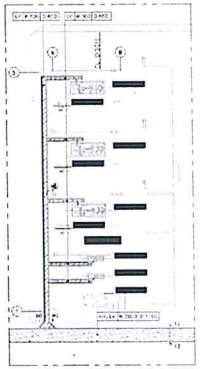
SCALE 1 : 150



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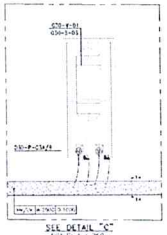

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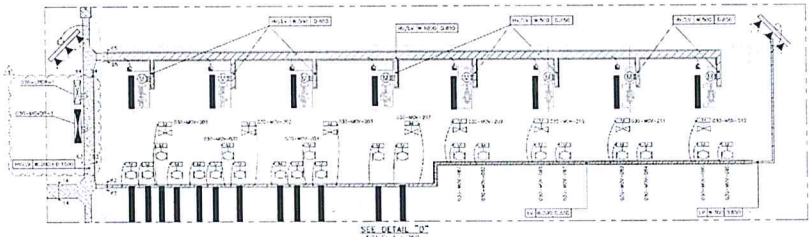

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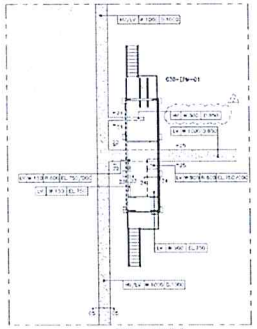

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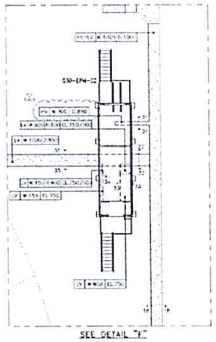

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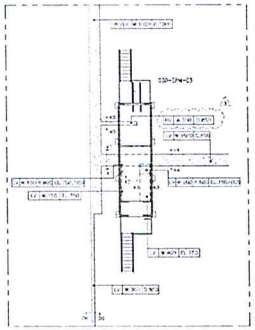

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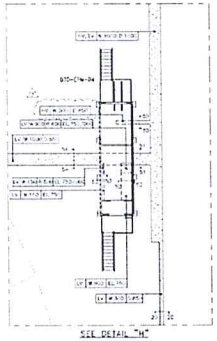


SEE DETAIL "H"
SCALE 1 : 150

REFERENCE DRAWINGS AND DOCUMENTS

01251-100-E00-DW-0001	AGROOD AREA (MODULE-1) PLOT PLAN
01251-100-E00-DW-0002	ELECTRICAL DESIGN BASIS
01251-100-E00-DW-0003	AGROOD AREA (MODULE-1) ELECTRICAL CABLE SCHEDULE
01251-100-E00-DW-0004	ELECTRICAL INSTRUMENT & PANEL BOARD LOADING SCHEDULE
01251-100-E00-DW-0005	AGROOD AREA (MODULE-1) ELECTRICAL CABLE ROUTING LAYOUT
01251-100-E00-DW-0006	ELECTRICAL INSTALLATION DETAILS FOR POWER SYSTEM
01251-100-SC-DW-0018	CATHODIC PROTECTION EQUIPMENT LAYOUT FOR AGROOD AREA

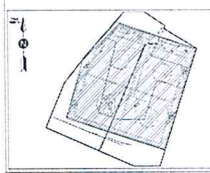
NOTES

1. GENERAL
1.1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
1.2. CABLES SHALL BE IDENTIFIED WITH STAINLESS STEEL TAGS (MARKERS) ATTACHED TO EACH CABLE AND STAMPED WITH THE CABLE NO. AT THE FOLLOWING LOCATIONS:
WITH MAXIMUM INTERVALS OF 25 METERS FOR UNDERGROUND CABLES
- WHERE CABLES CHANGES THEIR DIRECTION.
- AT BOTH CABLE ENDS
- AT EACH CABLE
1.3. JOINTS IN CABLING SHALL ONLY BE ATTEMPTED WHERE THE WORK LENGTH EXCEEDS COMMERCIALLY AVAILABLE CABLE DRUM LENGTHS.
1.4. DIMENSIONS GIVEN IN THIS DRAWING SHALL BE FOR CABLE INSTALLATION TOTAL WITH THE ACTUAL DIMENSIONS SHOWN ARE GUARANTEED FOR CONSTRUCTION OF DRAIN ON THE CONFLICT UNDERGROUND PIPING DRAWINGS.
1.5. FOR CONFIGURATION ELECTRICAL CABLE RATING REFER TO DRAWING NO.
01251-100-E00-DW-0006
1.6. THIS LAYOUT SHALL BE READ IN CONJUNCTION WITH SECTION ELECTRICAL CABLE SECTIONS DOC. NO. 01251-100-E00-ES-0002.
2. UNDERGROUND INSTALLATION
2.1. FOR CABLES INSTALLED IN UNPAVED AREAS, CABLES SHALL BE INSTALLED IN DIRECT BURIED TRENCHES.
2.2. FOR CABLES INSTALLED IN PAVED AREAS, CABLES SHALL BE INSTALLED IN CONCRETE TRENCHES WITH REMOVABLE COVERS AND SHALL BE FILLED WITH SAND IN THE HEIGHT OF THE REMOVABLE COVER SHALL PREFERABLY BE 1.00 (1.0) MTRS.
2.3. STEEL COVERS OF REINFORCED CONCRETE ENCLOSED SWITCHBOXES SHALL BE PROVIDED WITH LOCKS.
2.4. DIRECT BURIED TRENCH CONSISTS OF HEAVY DUTY PVC CONCRETE ENCASED IN CONCRETE WITH STEEL COVER COVERS.
2.5. THE MINIMUM TRENCH WIDTH SHALL BE 300mm.
2.6. THE MINIMUM BURIAL DEPTH MEASURED FROM GRADE LEVEL TO THE TOP SURFACE OF CABLE, CONDUIT, OR DUCT BANK SHALL BE AS FOLLOWS:

CABLES TYPE	DIRECT BURIED TRENCH	DUCT BANK AND DIRECT BURIED STEEL CONDUIT
LV CONTROL, INSTRUMENT	450mm	450mm
LV POWER	450mm	450mm
MV	750mm	450mm

2.7. ALL CABLES IN UNDERGROUND SHALL BE ARRANGED ACCORDING TO DETAILS, AS SHOWN ON THE DRAWINGS AS FOLLOWS:
- MV POWER CABLES SHALL RUN SEPARATED FROM LV POWER CABLES BY A DISTANCE OF 200mm AND IN A COMMON TRENCH AND CONCRETE TILES, AS WELL A DISTANCE OF 200mm WITHIN THE NEXT OF CONCRETE TILES OF INTERMEDIATE TILES.
- INSTRUMENT CABLES SHALL RUN SEPARATED FROM POWER CABLES BY 300 OR LIT BY A DISTANCE OF 200mm AND IN A COMMON TRENCH OF THE CONCRETE TILES, BUT BY A DISTANCE OF 200mm WITHIN THE NEXT OF CONCRETE TILES OF INTERMEDIATE TILES.
2.8. CONTROL CABLES AND LOW VOLTAGE CABLES MAY RUN IN THE SAME TRENCH.
2.9. DIRECT BURIED CABLE TRENCHES SHALL BE COMPACTED CONFLETELY FILLED WITH CLEAN SAND AND COVERED WITH RED MARKER TILE (TRANSLUCENT) AT WITHIN 300mm FROM TOP LAYER OF CABLES FOR MECHANICAL PROTECTION.
2.10. A YELLOW WARNING TAPE SHALL BE PROVIDED OVER RED TILES OF DIRECT BURIED TRENCHES FOR LOW VOLTAGE, CONTROL AND INSTRUMENT CABLES.
2.11. A RED WARNING TAPE SHALL BE PROVIDED OVER RED TILES OF DIRECT BURIED TRENCHES FOR HIGH VOLTAGE CABLES.
2.12. DIRECT BURIED CABLES SHALL BE LOCATED WHERE THEIR TRAVELS DIRECTION AND AT A SUFFICIENT DISTANCE TO AVOID.
2.13. FOR TRENCHES WITHIN LESS THAN 300mm WARNING MARKERS SHALL BE AT ONE SIDE AND FOR MORE THAN 300mm TRENCHES SHALL BE AT TWO SIDES.
2.14. POWER, CONTROL AND INSTRUMENT CABLES SHALL BE INSTALLED IN STEEL CONDUIT WHERE THEY LEAVE THE MAIN TRENCHES TO MOTORS AND CONTROL CONNECTIONS. THE STEEL CONDUITS SHALL BE EXTENDED A SHORT DISTANCE ABOVE GRADE. DUE TO MECHANICAL PROTECTION OF THE CABLES, STEEL CONDUIT CURVES MUST HAVE ENLARGED OR EACH END TO PROTECT CABLES AND OUTER JACKET CONDUITS SHALL BE FILLED WITH TOUGH PUTTY TO PREVENT SOIL WATER AND WATER ENTRANCE.
2.15. EXPANSION CONDITIONS SHALL BE INSTALLED IN THE CONDUITS WHERE THEY LEAVE THE MAIN TRENCHES TO THE MOTORS. THE STEEL CONDUITS SHALL BE FILLED WITH SEALING PUTTY TO PREVENT SOIL WATER AND WATER ENTRANCE.
2.16. THE MINIMUM BENDING RADIUS SHALL BE 12 TIMES THE OUTER DIAMETER OF THE CABLE FOR LOW VOLTAGE CABLES AND 15 TIMES THE OUTER DIAMETER OF THE CABLE FOR MEDIUM VOLTAGE CABLES.
2.17. MINIMUM HORIZONTAL DISTANCE BETWEEN UNDER GROUND PIPES AND DIRECT BURIED CABLES SHALL BE 300mm FOR LOW VOLTAGE CABLES AND 500mm FOR MEDIUM VOLTAGE CABLES.
2.18. MINIMUM HORIZONTAL DISTANCE BETWEEN COMPACTED TRENCHES AND DIRECT BURIED CABLES SHALL BE 0.5 m.
2.19. MINIMUM VERTICAL DISTANCE BETWEEN UNDERGROUND PIPES AND DIRECT BURIED CABLES SHALL BE 300mm.
3. CONSTRUCTION CONTRACTOR MUST ORIGINATE SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
3.1. CONSTRUCTION CONTRACTOR SHALL ENSURE THAT ALL CABLES ARE REQUIRED TO EXACT LENGTH BEFORE TRENCHES SAND FILLING.
3.2. CABLES ENTRANCE SHALL BE CARRIED OUT PERFORMED WITH A CERTAIN RECEPTACLE TO AVOID OTHER CABLE. THE CABLE LENGTH SHALL BE DETERMINED BY THE CABLE MANUFACTURER.
3.3. THE MINIMUM BENDING RADIUS OF LV CABLES SHALL NOT BE LESS THAN 12 TIMES THE TOTAL CABLE DIAMETER AND MUST NOT LESS THAN THAT RECOMMENDED BY THE CABLE MANUFACTURER.
3.4. CONSTRUCTION CONTRACTOR SHALL MAINTAIN CLEAN ROUTING TRENCHES TO INCLUDE EXACT LOCATIONS OF UNDERGROUND PIPES.
3.5. THE FOLLOWING ELECTRICAL CONSUMABLE MATERIALS SHALL BE PROVIDED BY CONSTRUCTION CONTRACTOR SCOPE OF SUPPLY:
- STAINLESS STEEL CABLE MARKERS.
- WIRES MARKERS.
- CABLES TIES, AND SEALS.
- PALLETS (FULL TERMINALS FOR CONTROL CABLES).
- TRENCH MARKERS.
- CONCRETE RED TILES.
- WARNING TAPE FOR DIRECT BURIED TRENCHES.
- SHOVELLING CLEAN SAND.
- STAINLESS STEEL M12/L50+BOLTS/WASHER/LOCK PL.
- HOT STEEL SUPPORTS FOR FIXING OF CABLE TRAYS, CONTROL STATIONS, ETC.
- THREADED RODS.
- HOT DIPPED FOR STEEL CONDUITS
- PVC CONDUITS.
- EXTRA FLAT COVER/BLUE/GREEN/YELLOW HEAT SHRINKABLE SLEEVES FOR CONNECTIONS OF LV CABLES.
- HEAT SHRINKABLE SEALING KITS/COMPOUND FOR STANDARD AND DESIGNATION OPENINGS.

KEY PLAN



REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED	APPROVED
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2	[illegible]	ISSUED FOR CONSTRUCTION	R.M	S.K.A	M.F	M.A
1	[illegible]	RE-ISSUE FOR DESIGN	R.M	S.K.A	A.M	M.A
0	[illegible]	ISSUED FOR COMM	R.M	S.K.A/M.A	A.M	M.A

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CLIENT REF. NO. / N/A	FOR : EGPC
ENPPI REF. NO. / 01251-100	PROJECT NO. / [illegible]

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR ELECTRICAL CABLE ROUTING LAYOUT

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

SCALE	ENPPI DRAWING NUMBER	REVISION	SHEET
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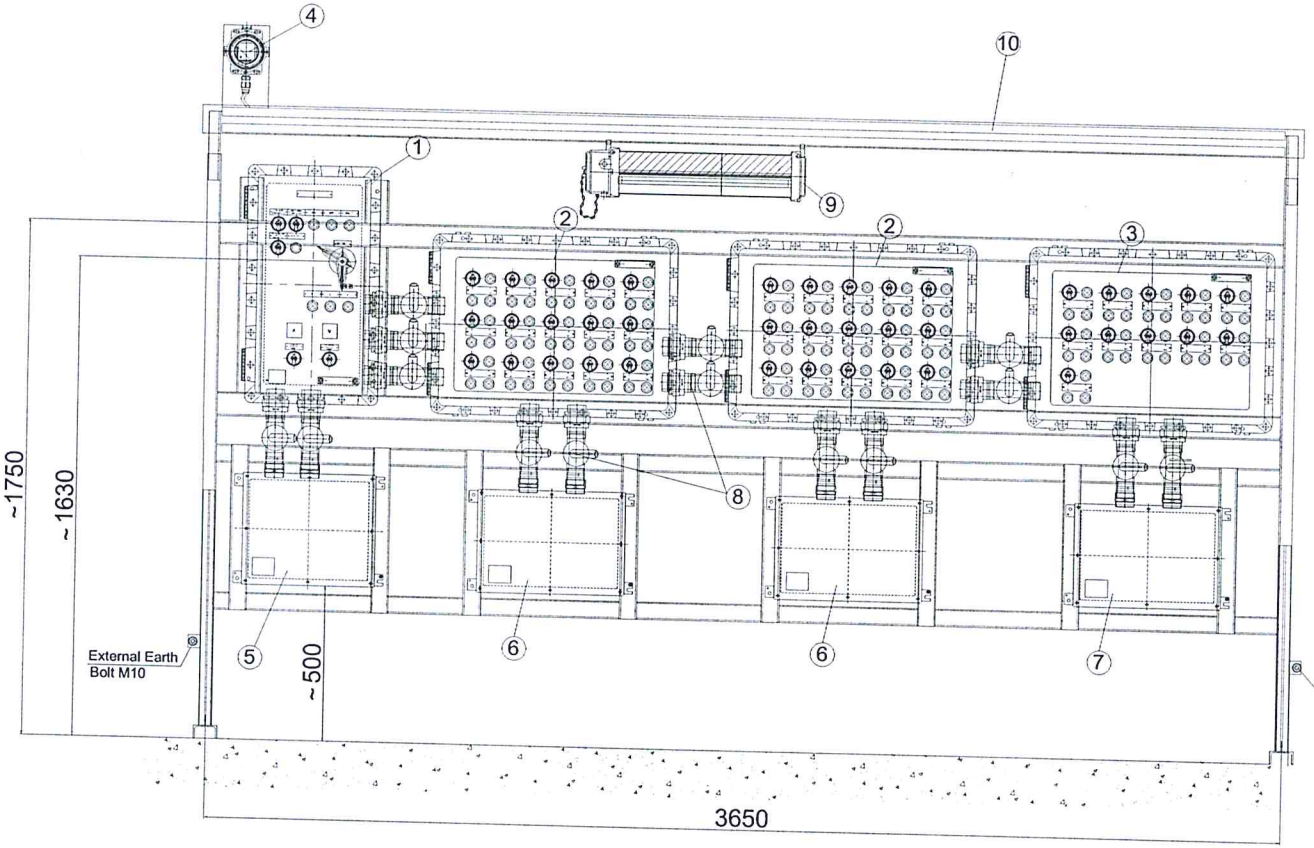
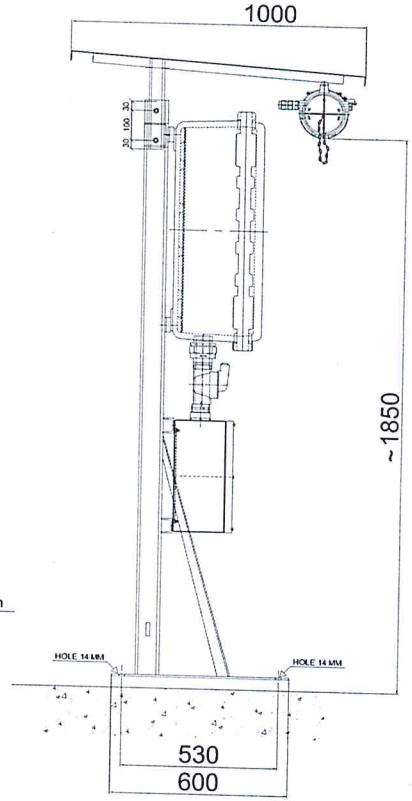
A0 SIZE 1189 X





ITEM	DESCRIPTION	Q.TY	NOTE/MAT.	MANUFACTURER
10	HDG Steel Mounting frame + canopy (unpainted)	1	.	TECHNOR-ITALSMEA
9	LED Tube Lighting fixture 2x16W	1	EVF-P LED	TECHNOR-ITALSMEA
8	Set of Three pieces union 2"NPT and Horizzontal sealing fittings	15	BMM-6+EZS-6 NP-6 + A636N	TECHNOR-ITALSMEA
7	AISI316L ENCLOSURE	1	SB-355016	TECHNOR-ITALSMEA
6	AISI316L ENCLOSURE	2	SB-355016	TECHNOR-ITALSMEA
5	AISI316L ENCLOSURE	1	SB-384520	TECHNOR-ITALSMEA
4	ALUMINIUM ENCLOSURE	1	CPSC-26/EMH90	TECHNOR-ITALSMEA
3	ALUMINIUM ENCLOSURE	1	EJB-13	TECHNOR-ITALSMEA
2	ALUMINIUM ENCLOSURE	2	EJB-13	TECHNOR-ITALSMEA
1	ALUMINIUM ENCLOSURE	1	EJB-12	TECHNOR-ITALSMEA

NOTE:

- TECHNOR-ITALSMEA WILL SUPPLY THE STRUCTURE WITH ALL ENCLOSURES MOUNTED AND WIRED.
- CANOPY WILL BE SHIPPED SEPARATLY UNASSEMBLED
- SEALING OF JOINTS BETWEEN ENCLOSURES SHALL BE COMPLETED BY CLIENT BEFORE COMMISSIONING AT SITE

General Notes:
Except otherwise specified, unless all the quotas are expressed in millimeters with the following tolerances:
- up to 6mm: ± 0.2mm
- over 6 and up to 30mm: ± 0.3mm
- over 30 and up to 100mm: ± 0.8mm
- over 100 and up to 300mm: ± 1.2mm
- over 300 and up to 1000mm: ± 2mm
- over 1000mm: 2mm/2m
- angles: ± 1°

Z:\JOB\2020_IN CORSO\E\E2000251 A E2000500\E2000253 - ENPPI - AGROOD\04 - SVILUPPO\01 - DISEGNI\VOL_16+18+19+20_LIGHTING PANEL _VACCA\REV 3\AGROOD_LIGHTING_PANELS.DWG

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

Technor ITALSMEA
A company of MARECHAL ELECTRIC GROUP

Project	EGPC CRUDE OIL TANK FARM	CLIENT	ENPPI
Description	. . .	P.O. n°	1251-100-520-01-25
		M.R. n°	01251-100-520-01-P

Dwg. No. B050X12221742 — sh. 2 of 18

Drawn.	Vaccalluzzo	Check	Matassa
App.	Roncoroni	Date	26/06/2020
Scale	/	Rev. 3	S.O. E-2000253

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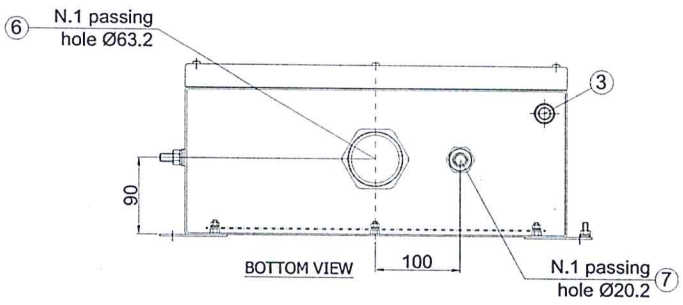
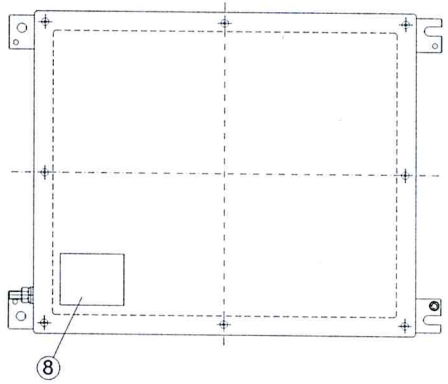
UNI A3 (297x420mm)



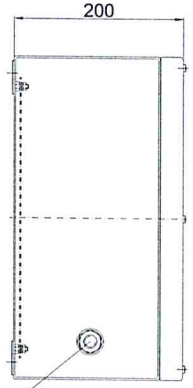
BOTTOM VIEW

CABLE GLANDS SUPPLIED LOOSE

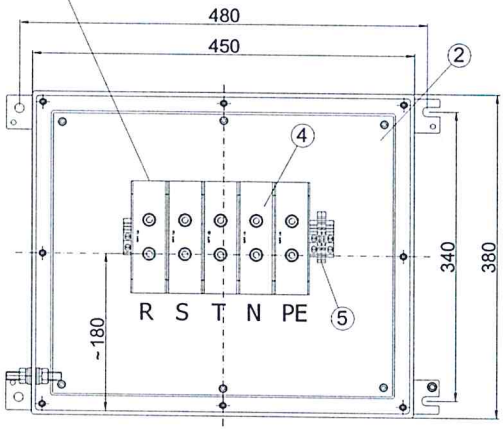
NOTE FOR TECHNOR'S WORKSHOP: PLEASE MOUNT THE TERMINALS AS HIGHT AS YOU CAN



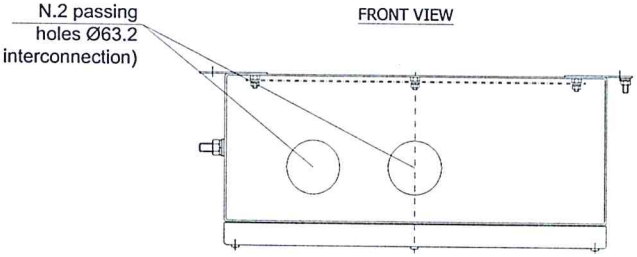
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE:
- EXECUTION: ATEX II 2GD Ex eb IIC
- DEGREE OF PROTECTION: IP66
- VOLTAGE: 400Vac 50/60Hz
- CURRENT: 160A
- AMBIENT TEMPERATURE: -20/+50°C
- EXTERNAL PAINT: UNPAINTED
- INTERNAL PAINT: UNPAINTED

ITEM	DESCRIPTION	Q.TY	NOTE/MAT.	MANUFACTURER
8	POLYESTER SELF-ADHESIVE CERTIFICATION LABEL	1	.	TECHNOR-ITALSMEA
7	BRASS NICKEL CHROME DOUBLE SEAL CABLE GLAND M20 FOR ARMOURED CABLE	1	KBAU1M	BIMEDTEKNIK
6	BRASS NICKEL CHROME DOUBLE SEAL CABLE GLAND M63 FOR ARMOURED CABLE	1	KBAU6XMM	BIMEDTEKNIK
5	TERMINAL BLOCK 2,5Sqmm (FOR MCCB FAULT SIGNAL)	2	WDU-2,5	WEIDMULLER
4	TERMINAL BLOCK (BOLT TYPE - M10) SUITABLE FOR 150Sqmm CABLE	5	WFF-120	WEIDMULLER
3	AISI316L DRAIN VALVE	1	ECR 3	TECHNOR-ITALSMEA
2	AISI316L INTERNAL MOUNTING PLATE	1	PS-3845	TECHNOR-ITALSMEA
1	AISI316L ENCLOSURE (WHITOUT HINGES)	1	SB-384520	TECHNOR-ITALSMEA

General Note:
Except otherwise writing, all the quotas are expressed in millimeters with the following tolerances:
- up to 6mm: ± 0.2mm
- over 6 and up to 30mm: ± 0.5mm
- over 30 and up to 120mm: ± 0.8mm
- over 120 and up to 300mm: ± 1mm
- over 300 and up to 1000mm: ± 2mm
- over 1000mm: ± 1°
- angles:

Z:\JOB\2020_IN CORSO\E\E2000251 A E2000500\E2000253 - ENPPI - AGROOD\04 - SVILUPPO\01 - DISEGNI\VOL_16+18+26+28_LIGHTING_PANEL _VACCA\REV 3\AGROOD_LIGHTING_PANELS.DWG

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

Technor ITALSMEA
A company of MARECHAL ELECTRIC GROUP

Project	EGPC CRUDE OIL TANK FARM	CLIENT	ENPPI
Description	. . .	P.O. n°	1251-100-520-01-25
		M.R. n°	01251-100-520-01-P

Dwg. No. B050X12221742 — sh. 3 of 18
Drawn. Vaccalluzzo — Check Matassa
App. Roncoroni — Date 26/06/2020
Scale / — Rev. 3 — S.O. E-2000253

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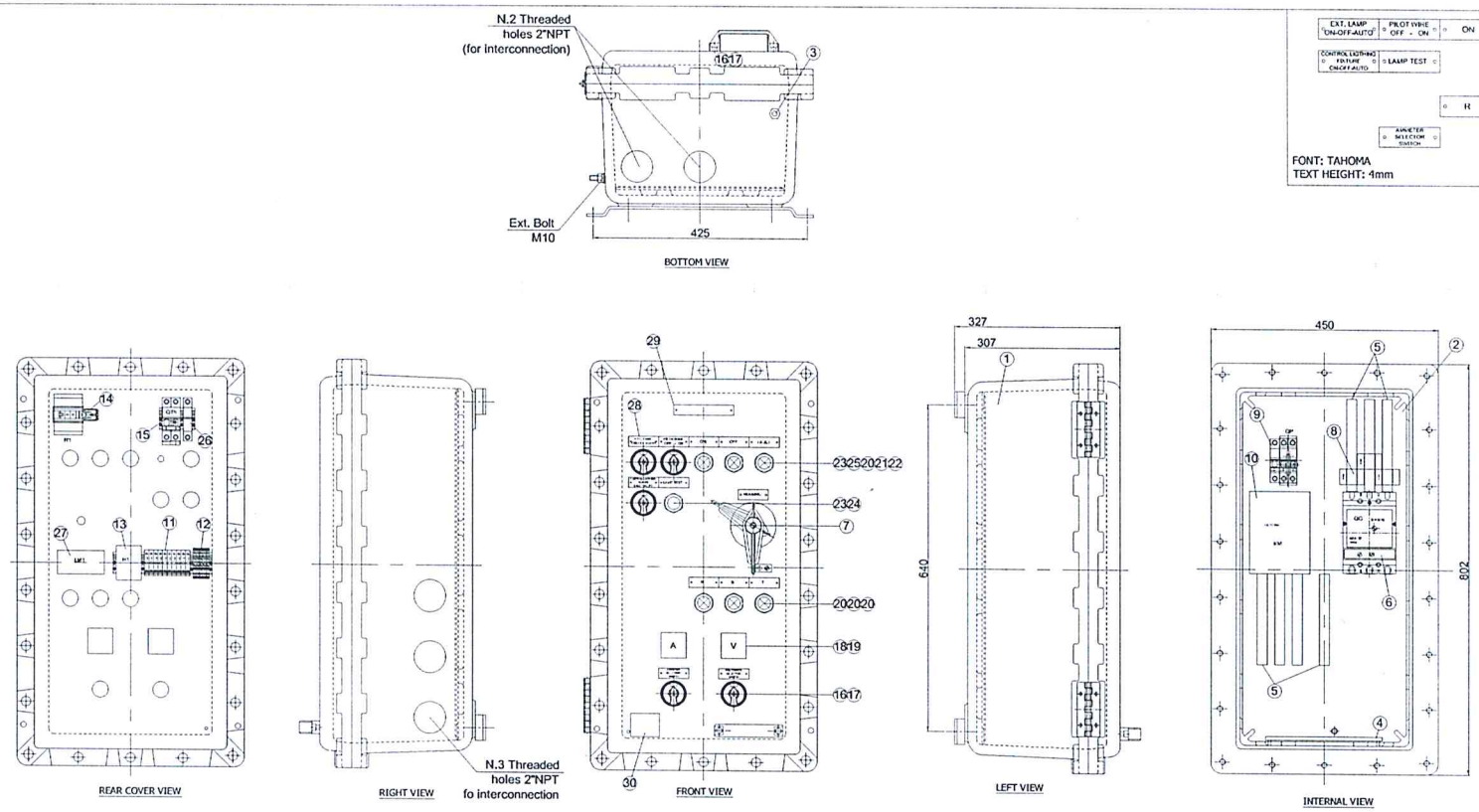
UNI A3 (297x420mm)



General notes:
For tolerances not specified, all the quotas are expressed in millimeters with the following tolerances:
- up to 6mm: ± 0.2mm
- over 6 and up to 30mm: ± 0.25mm
- over 30 and up to 100mm: ± 0.3mm
- over 100 and up to 300mm: ± 1.2mm
- over 300 and up to 1000mm: ± 2mm
- over 1000mm: ± 0.05mm
- angles: ± 1°

Z:\JOB\2020_IN CORSO\E\E2000251 A E2000500\E2000253 - ENPPI - AGROOD\04 - SVILUPPO\01 - DISEGNI\VOL_16+18+25 PANEL _VACCA\REV 3\AGROOD_LIGHTING_PANELS.DWG

NOTE:
- EXECUTION: ATEX II 2GD Ex db IIB
- DEGREE OF PROTECTION: IP66
- VOLTAGE: 400Vac/230Vac 50/60Hz
- CURRENT: 160A
- AMBIENT TEMPERATURE: -20/+50°C
- EXTERNAL PAINT: RAL5014 (ITALSMEA STANDARD CYCLE TYPE C4)
- INTERNAL PAINT: ANTICONDENSATION

ITEM	DESCRIPTION	Q.TY	NOTE/MAT.	MANUFACTURER
30	POLYESTER SELF-ADHESIVE CERTIFICATION LABEL	1	.	TECHNOR-ITALSMEA
29	AISI316L OPERATOR LABEL 120x20 NATURAL BACKGROUND / BLACK LETTERS	1	.	TECHNOR-ITALSMEA
28	AISI316L OPERATOR LABEL 60x20 NATURAL BACKGROUND / BLACK LETTERS	13	.	TECHNOR-ITALSMEA
27	LAMP TEST MODULE - 8 CHANNALS (LM1) (MOUNTED ON THE REAR COVER)	1	.	CABUR
26	TWILIGHT SWITCH (MOUNTED ON THE REAR COVER)	1	IC2000	SCHNEIDER
25	EXTERNAL HANDLE FOR MCB	1	.	TECHNOR-ITALSMEA
24	BLACK PUSH BUTTON (2NO)	1	PLA-10	TECHNOR-ITALSMEA
23	STEP ROTARY ROTARY SWITCH - 3 POS	2	PSRC-C-220	TECHNOR-ITALSMEA
22	YELLOW PILOT LIGHT (230Vac)	1	PLD-40	TECHNOR-ITALSMEA
21	GREEN PILOT LIGHT (230Vac)	1	PLD-30	TECHNOR-ITALSMEA
20	RED PILOT LIGHT (230Vac)	4	PLD-20	TECHNOR-ITALSMEA
19	VOLTMETER (0-400)V	1	.	FRER
18	AMMETER (0-200)A	1	.	FRER
17	VOLTMETER SELECTOR SWITCH 12 POSITION	1	PSRC-V	TECHNOR-ITALSMEA
16	AMMETER SELECTOR SWITCH 4 POSITION	1	PSRC-A	TECHNOR-ITALSMEA

ITEM	DESCRIPTION	Q.TY	NOTE/MAT.	MANUFACTURER
15	MCB, 2P, 10A, CURVE C, 10KA (MOUNTED ON THE REAR COVER)	1	C60L	SCHNEIDER
14	SPACE HEATER 25W (MOUNTED ON THE REAR COVER)	1	SHT25	ALFA-ELECTRIC
13	HYGROSTAT, SET 35 ...95 % RH (MOUNTED ON THE REAR COVER)	1	MFR 012	STEGO
12	DUAL LAYERTERMINAL BLOCK 4Sqmm (MOUNTED ON THE REAR COVER)	5	WDK 4 NV	WEIDMULLER
11	FUSE TERMINAL BLOCK 4Sqmm (MOUNTED ON THE REAR COVER)	11	WSI 4	WEIDMULLER
10	CONTACTOR, 3P, 160A (AC1), COIL 230V	1	LC1D150	SCHNEIDER
9	MCB, 3P, 20A, CURVE C, 10KA	1	IC60N	SCHNEIDER
8	CURRENT TRANSFORMER 200A/5A	3	TAC022	FRER
7	EXTERNAL HANDLE FOR MCCB (LOCKABLE)	1	.	TECHNOR-ITALSMEA
6	MCCB 3P, 160A, 25KA	1	NSX-160	SCHNEIDER
5	COPPER DISTRIBUTION BAR	1	.	TECHNOR-ITALSMEA
4	COPPER EARTH BAR	1	.	TECHNOR-ITALSMEA
3	DRAIN VALVE 3/8"	1	.	TECHNOR-ITALSMEA
2	GALVANIZED STEEL INTERNAL MOUNTING PLATE	1	PS-12	TECHNOR-ITALSMEA
1	ALUMINIUM ENCLOSURE	1	EJB-12	TECHNOR-ITALSMEA

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

Technor ITALSMEA
A company of MARECHAL ELECTRIC GROUP

Project	EGPC CRUDE OIL TANK FARM
Description	. . .
CLIENT	ENPPI
P.O. n°	1251-100-520-01-25
M.R. n°	01251-100-520-01-P
Dwg. No.	B050X12221742
Drawn.	Vaccalluzzo
Check	Matassa
App.	Roncoroni
Date	26/06/2020
Scale	/
Rev.	3
S.O.	E-2000253
sh.	4
of	18

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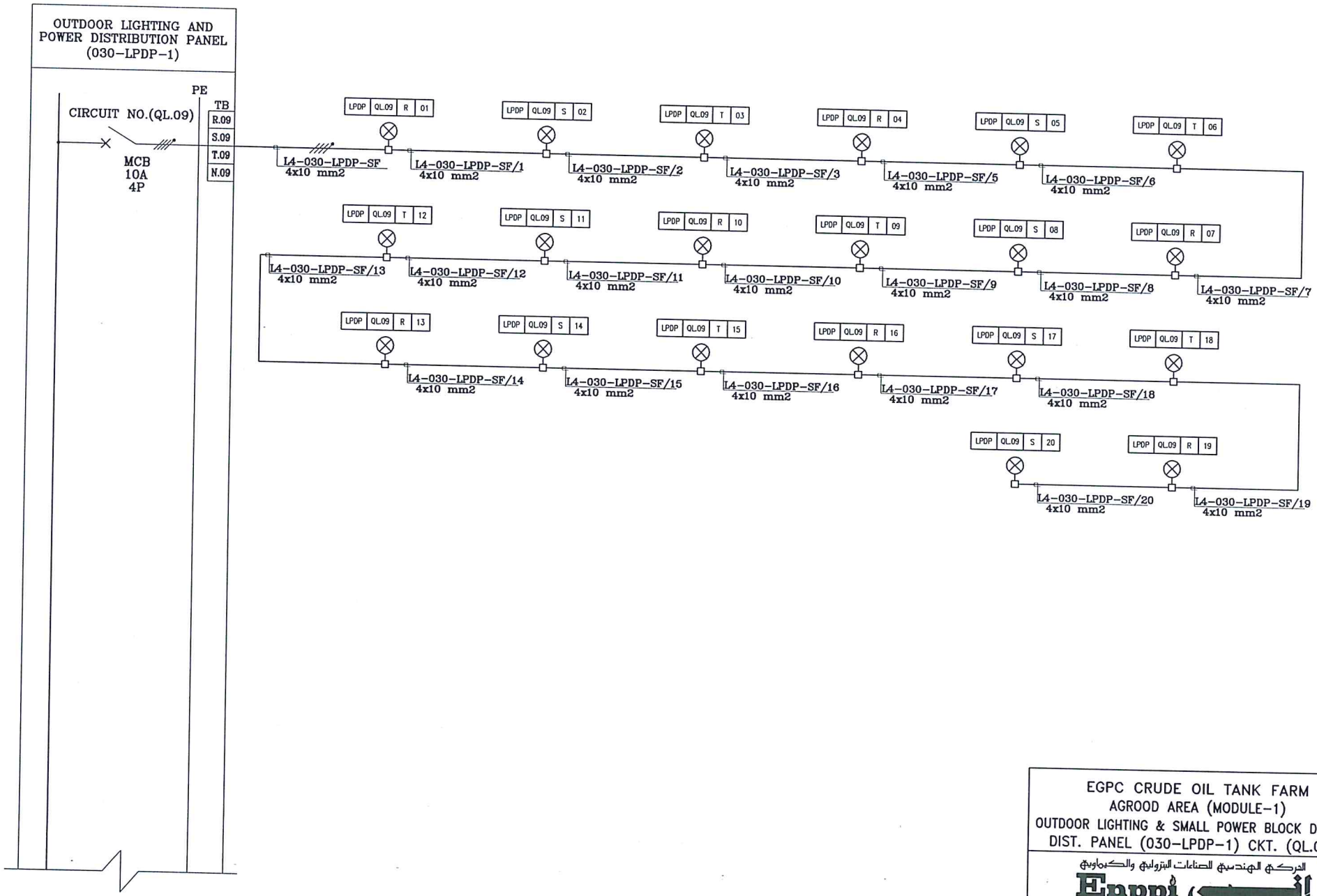
UNI A3 (297x420mm)



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.09)

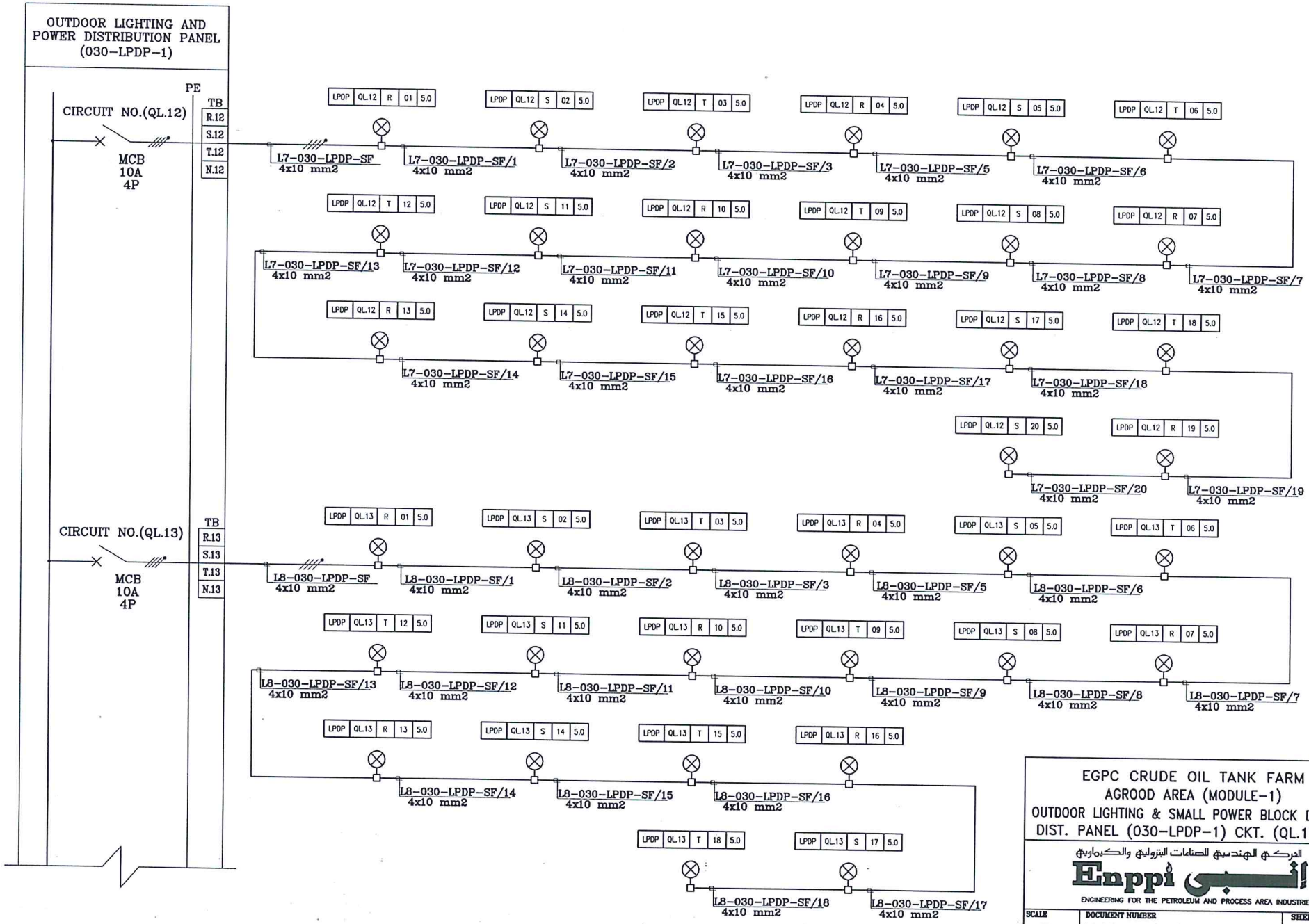
الشركة الهندسية للصناعات البترولية والكيماوية
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	07/34	0

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.10/11)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	08/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.12/13)

المركز الهندسي للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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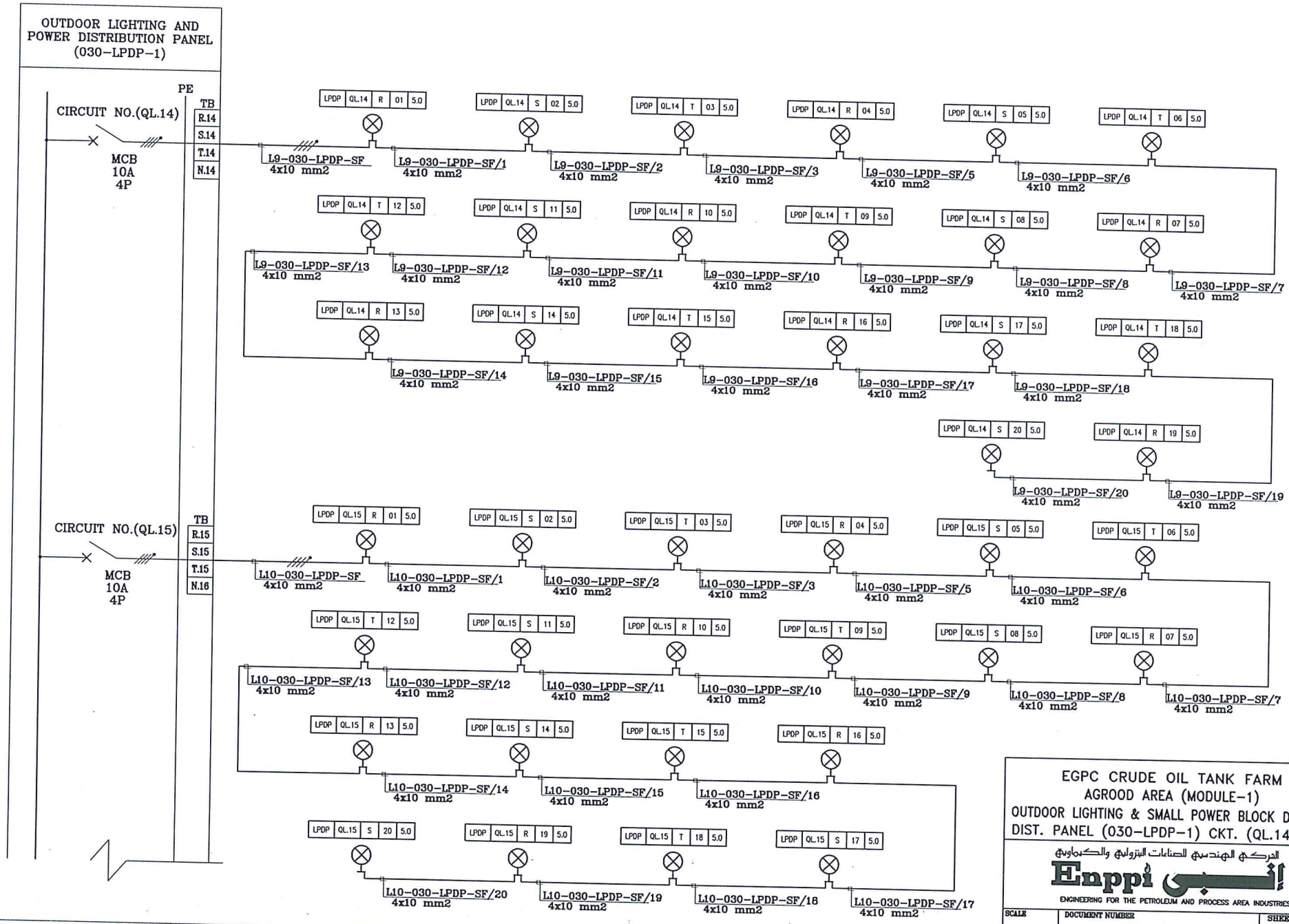

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.14/15)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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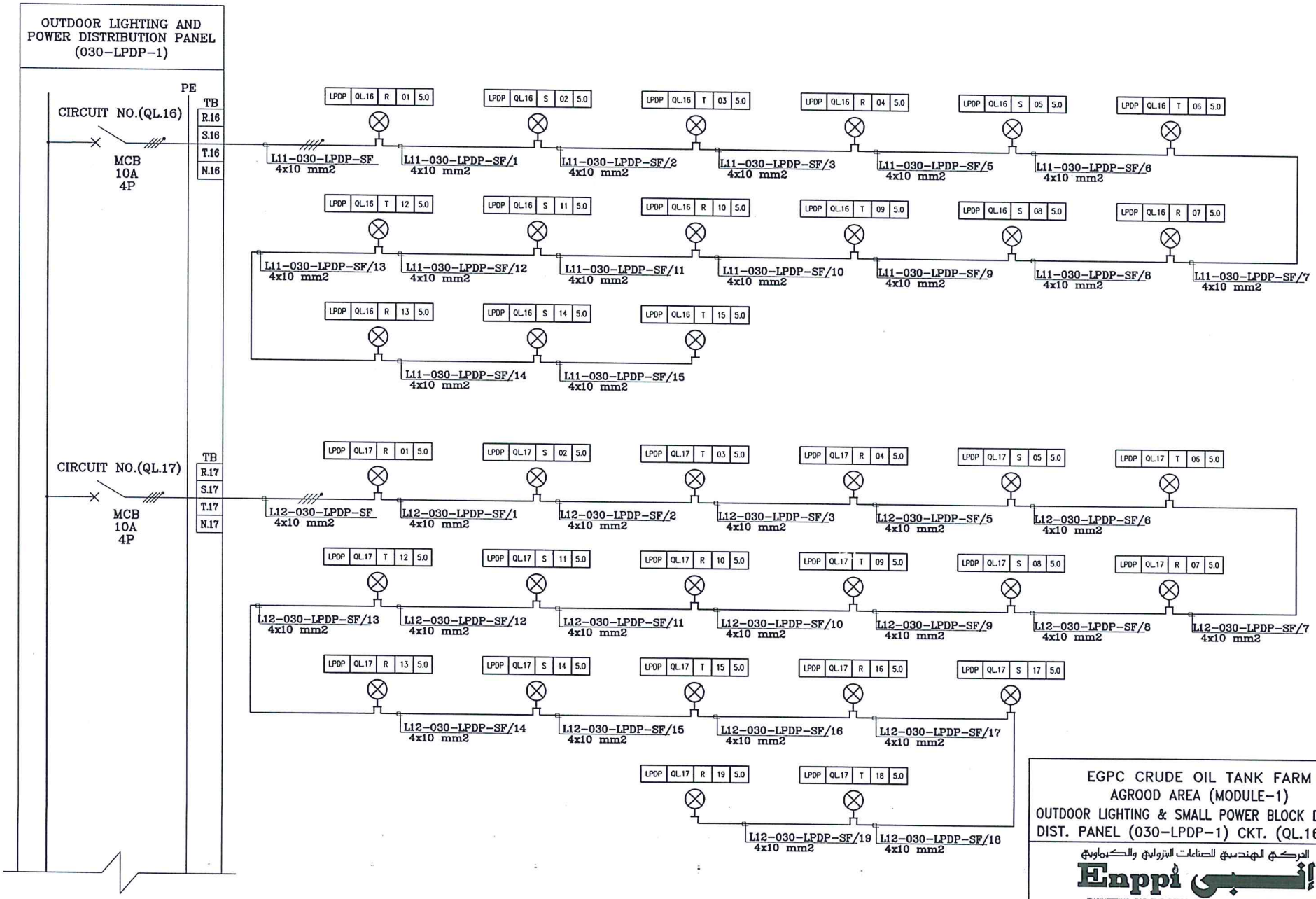
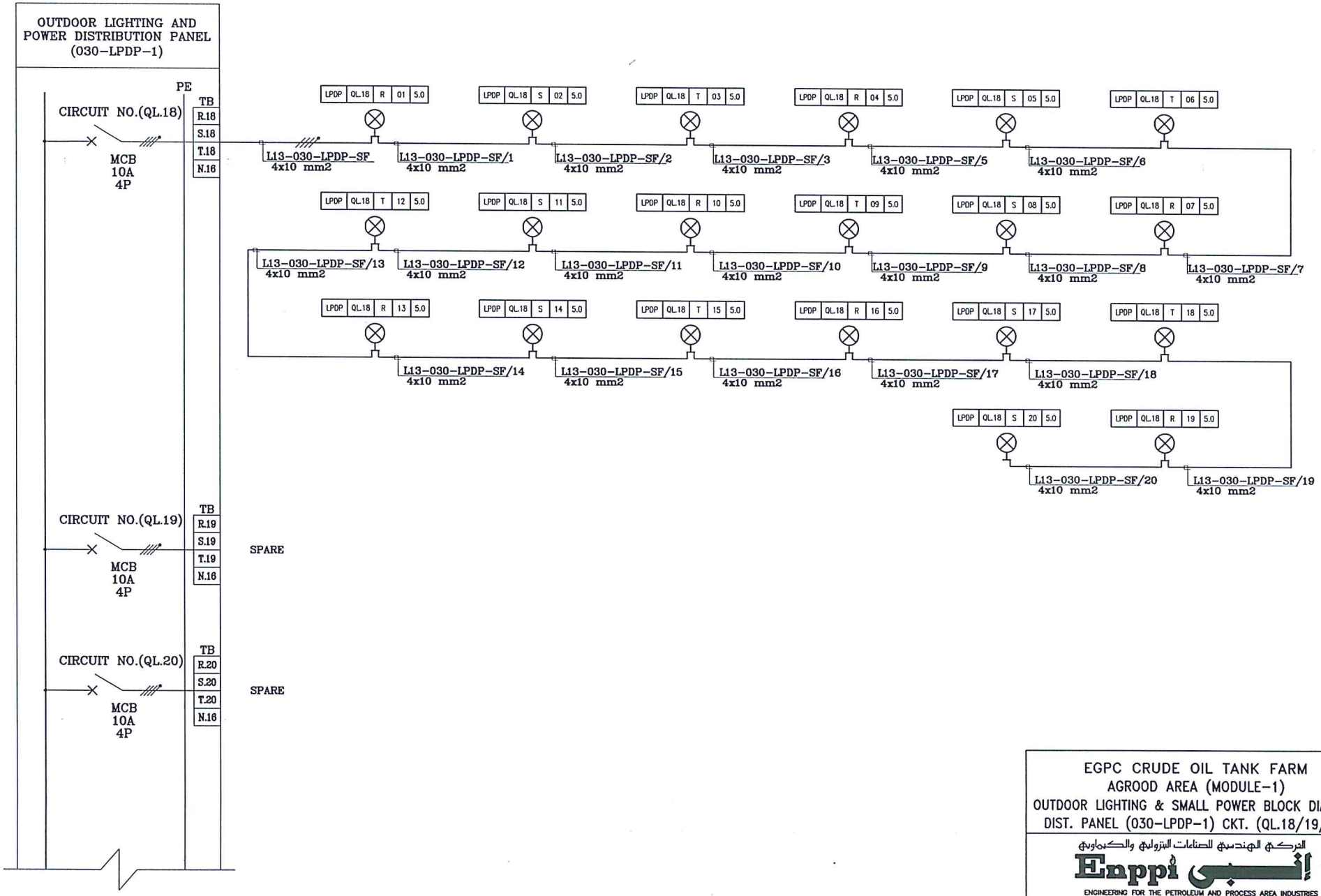


EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.16/17)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	11/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.18/19/20)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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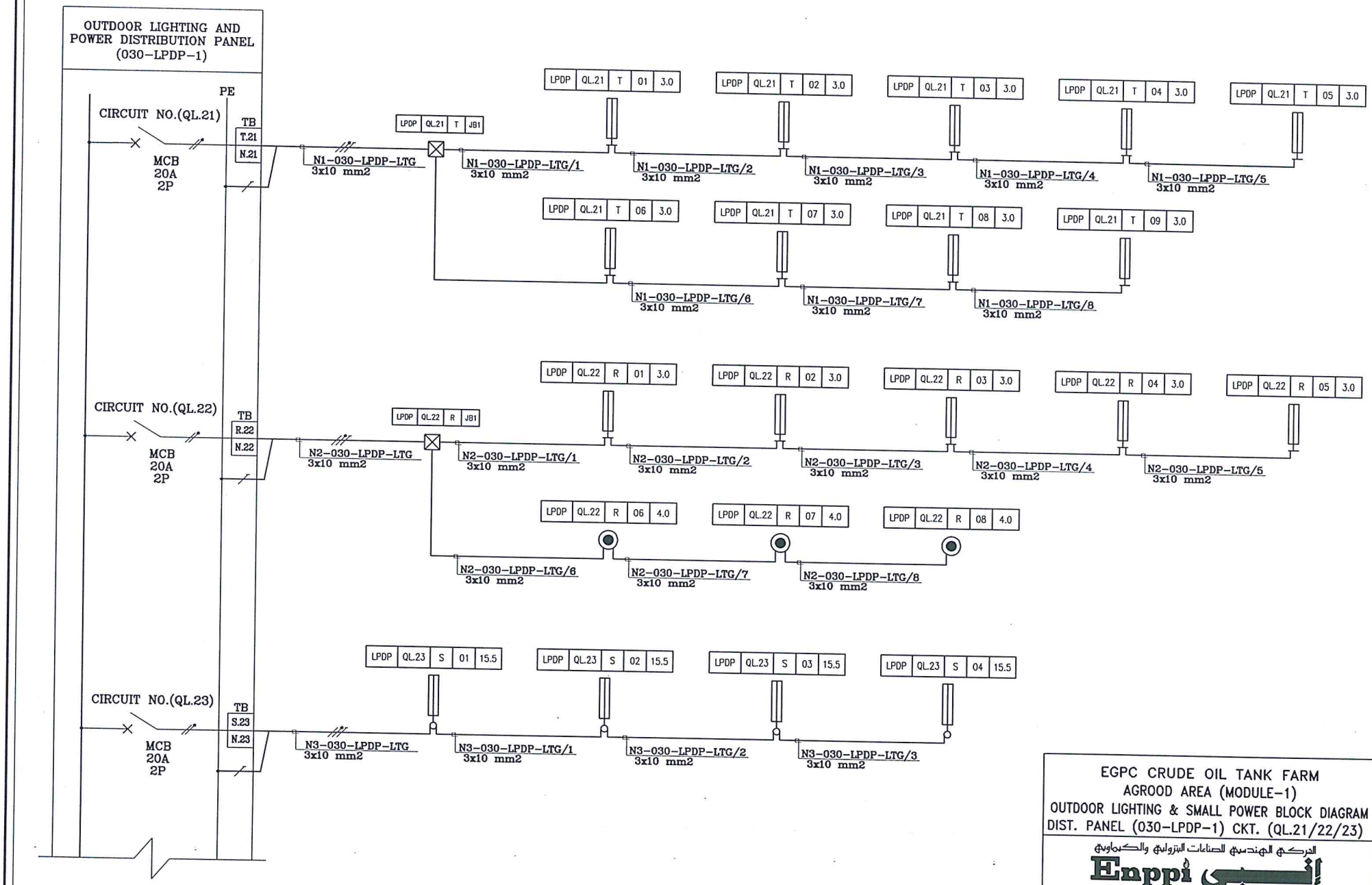

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.21/22/23)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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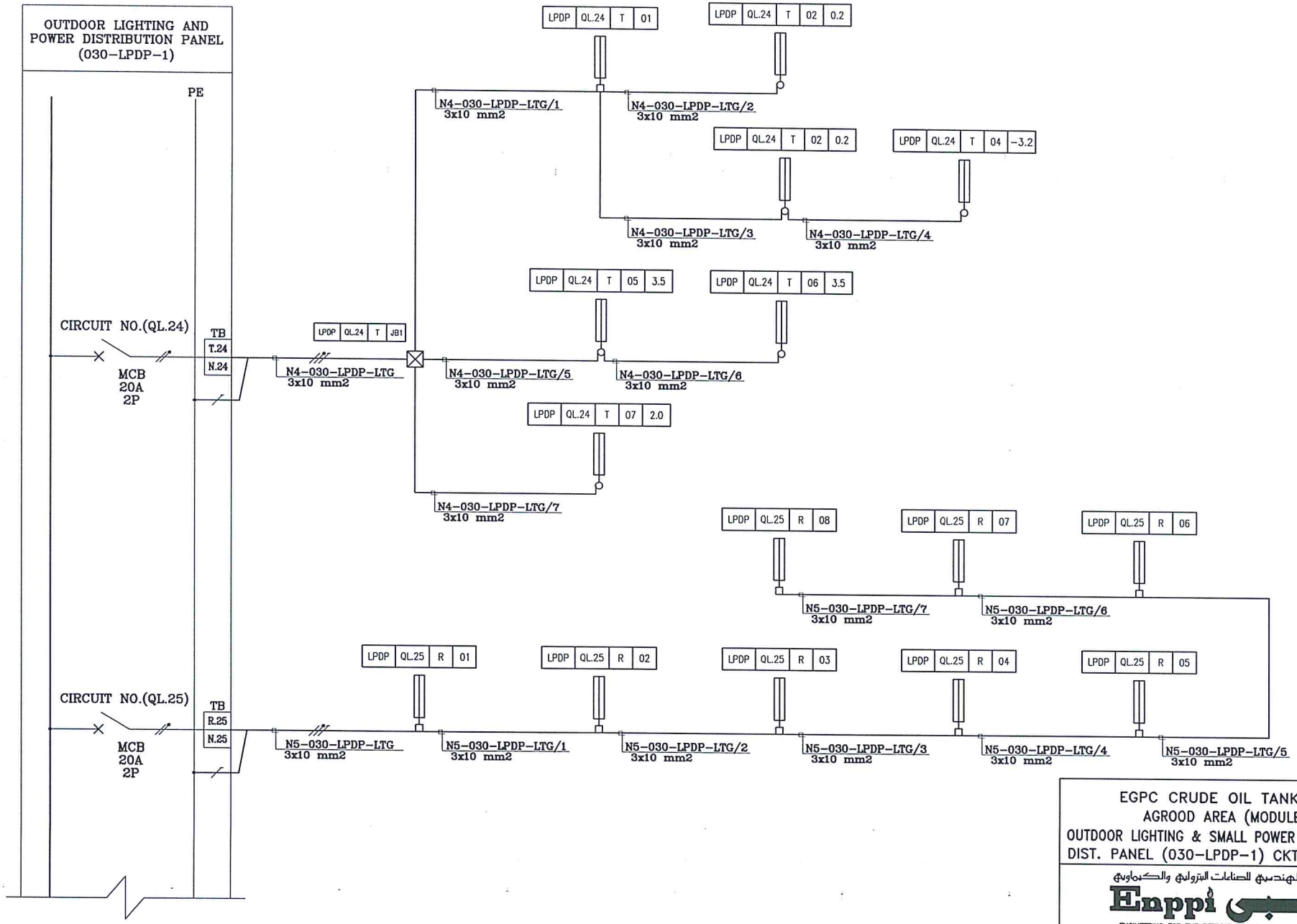
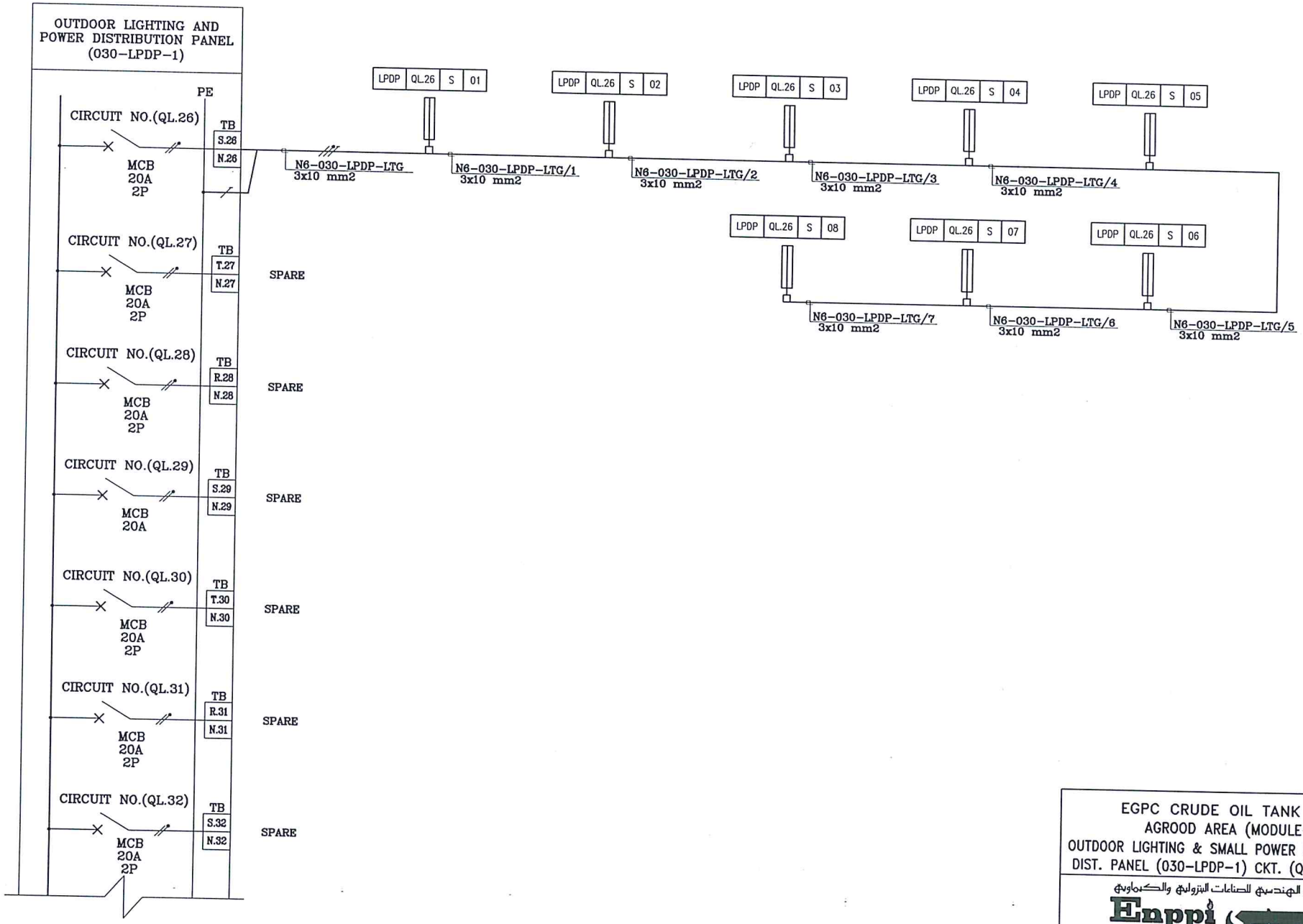


EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.24/25)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	14/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.26 TO QL.32)

المركز الهندسي للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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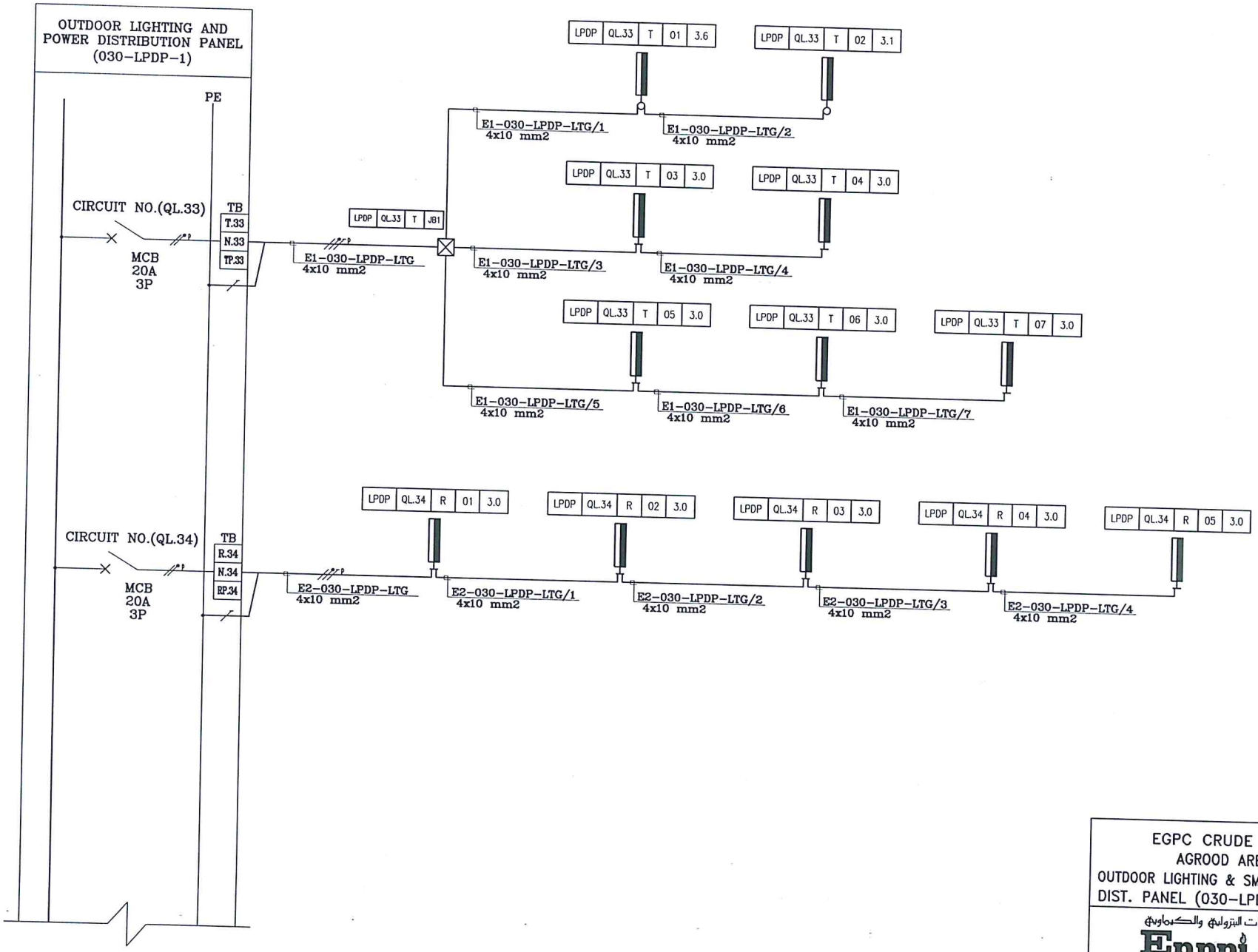

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.33/34)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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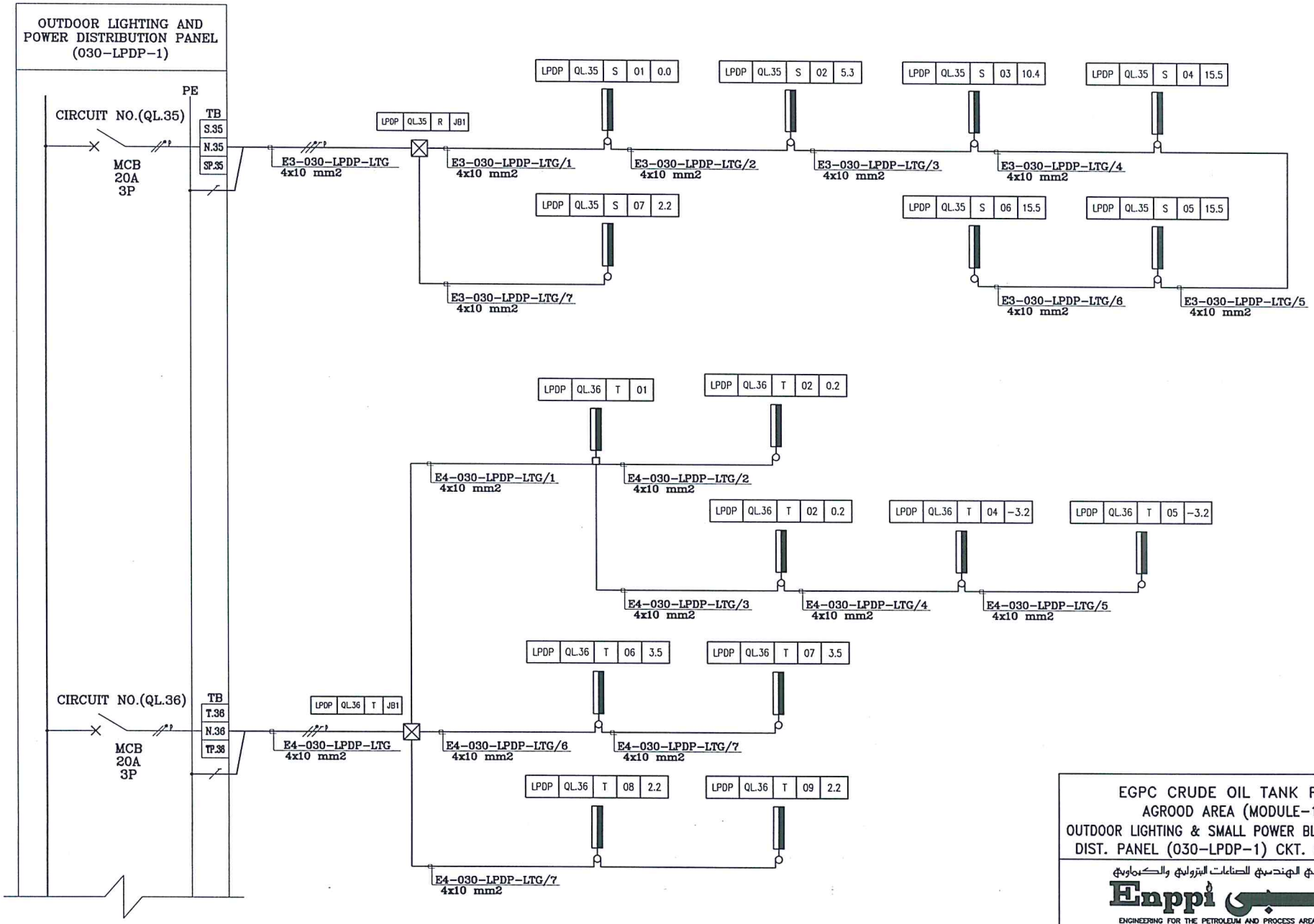

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.35/36)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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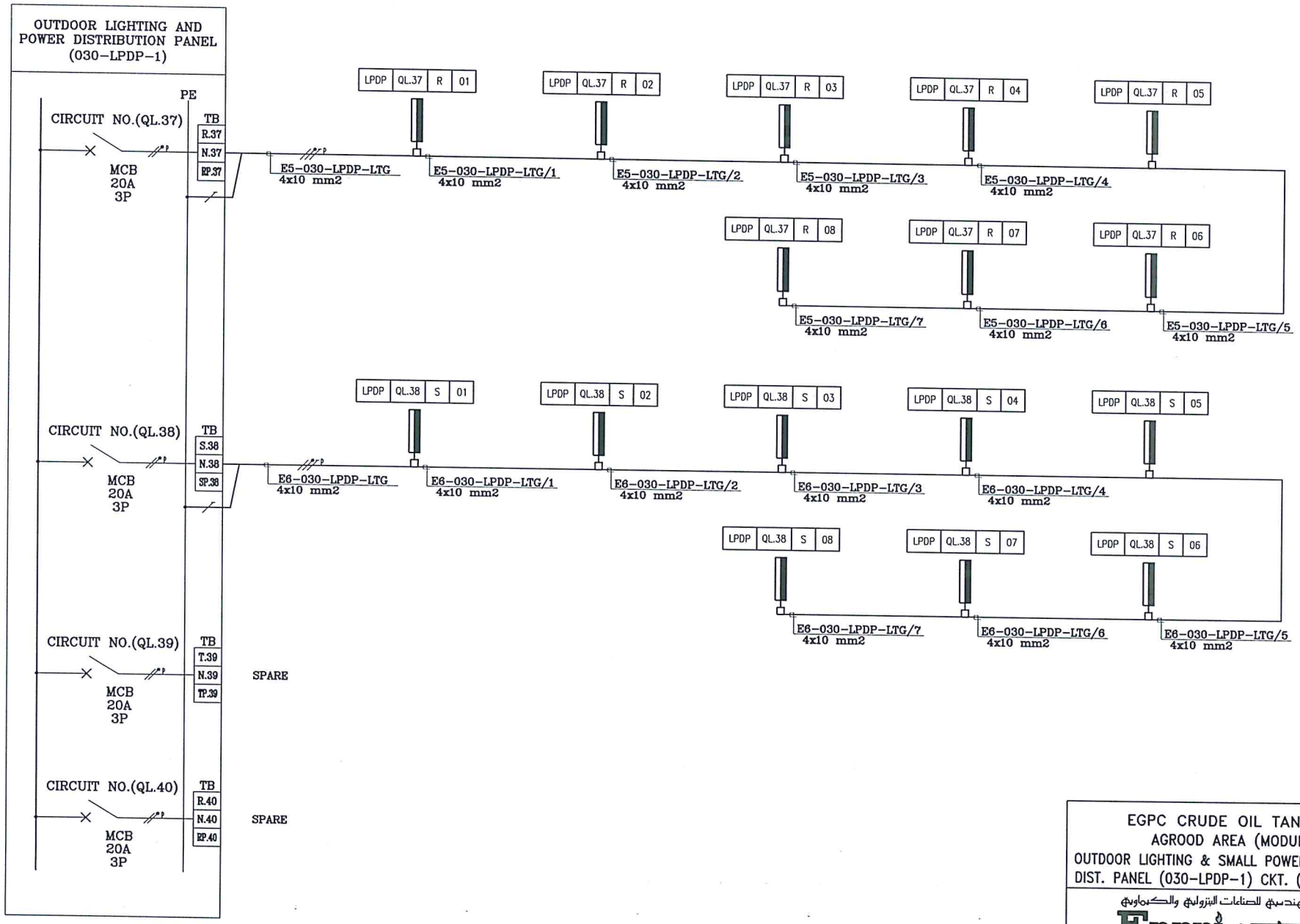

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING & SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-LPDP-1) CKT. (QL.37/38/39/40)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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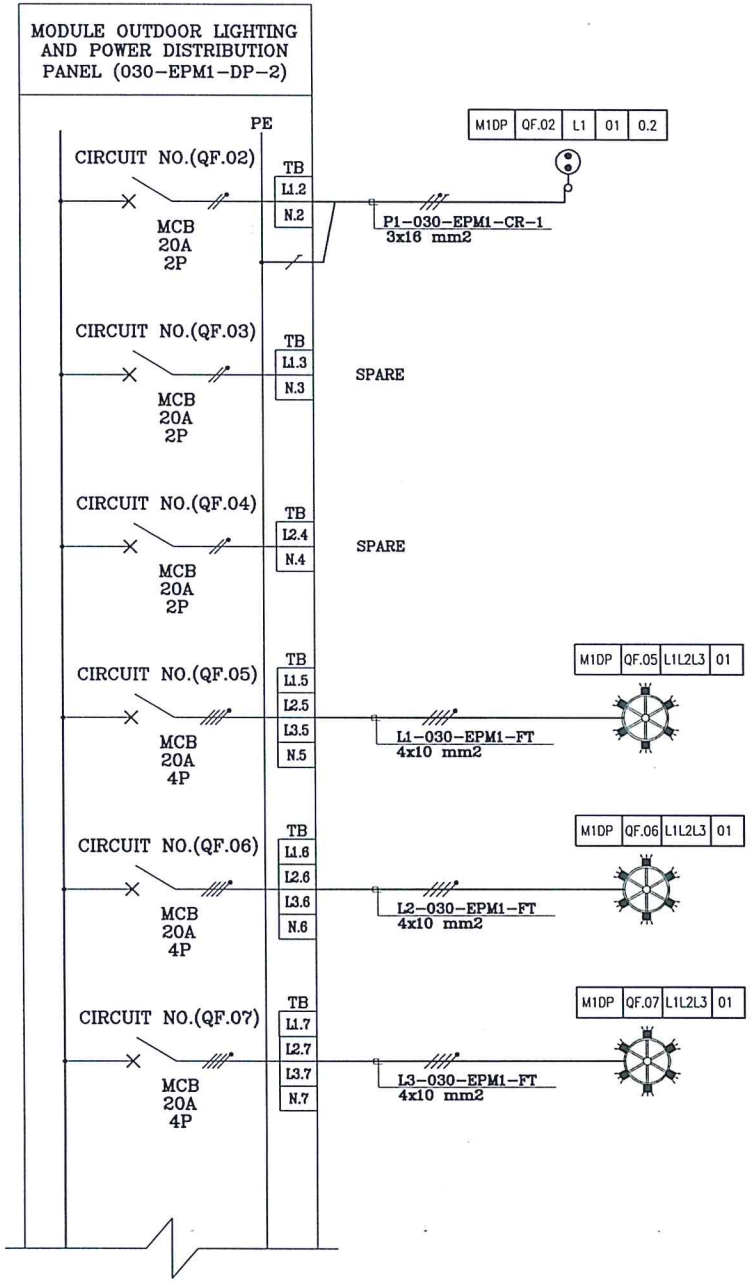
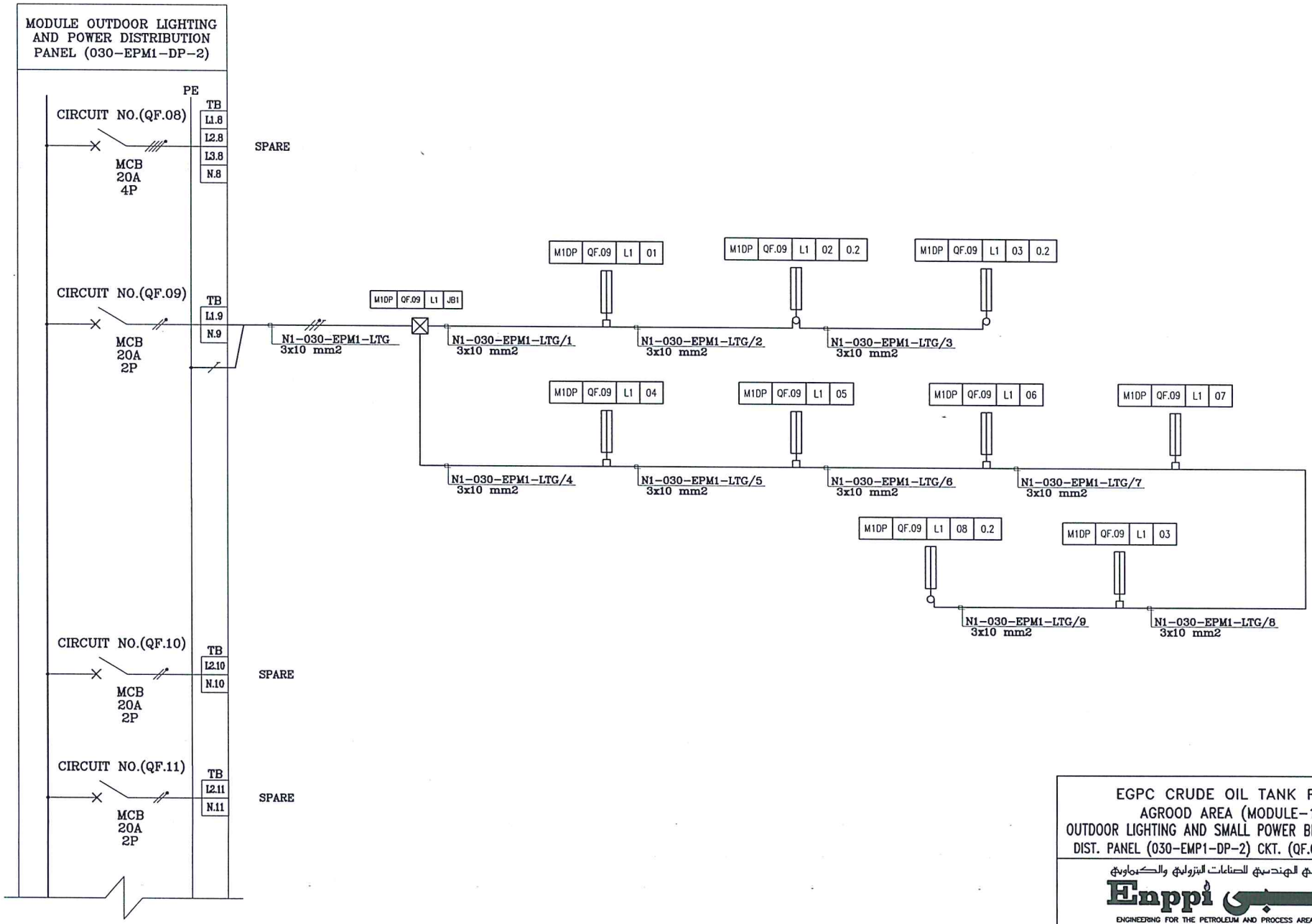


EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP1-DP-2) CKT. (QF.02 TO QF.07)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	19/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP1-DP-2) CKT. (QF.08 TO QF.11)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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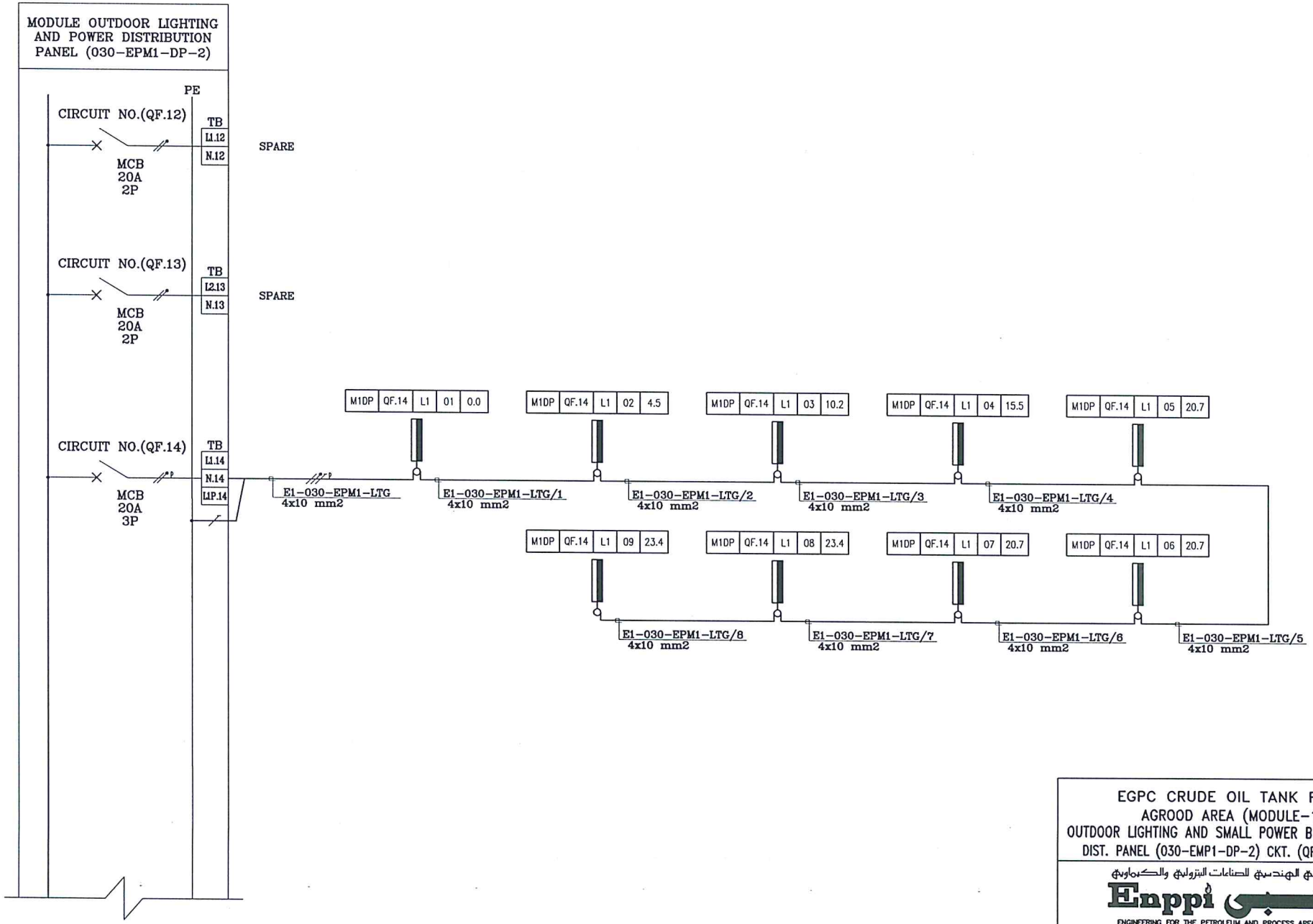
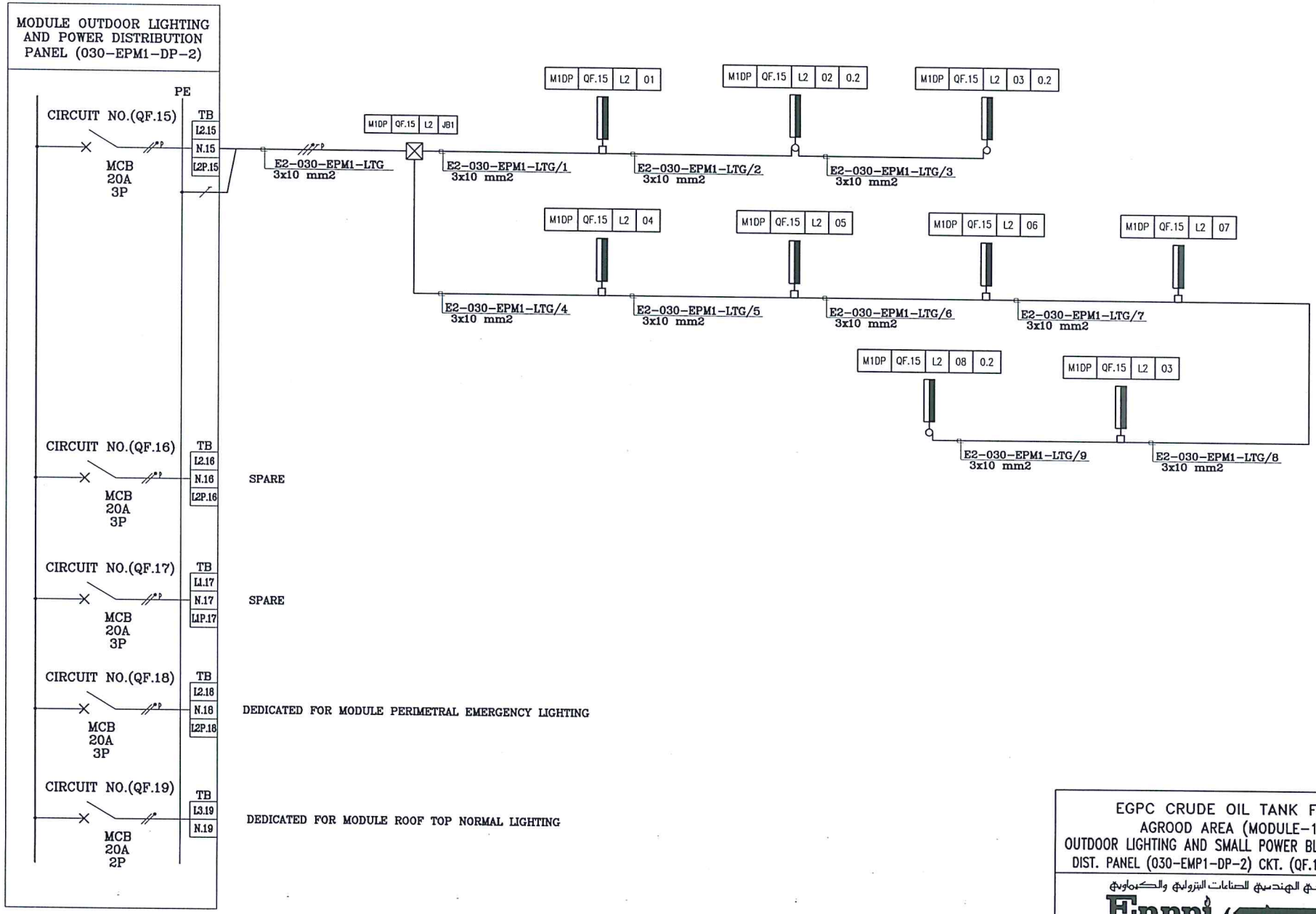


EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP1-DP-2) CKT. (QF.12/13/14)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

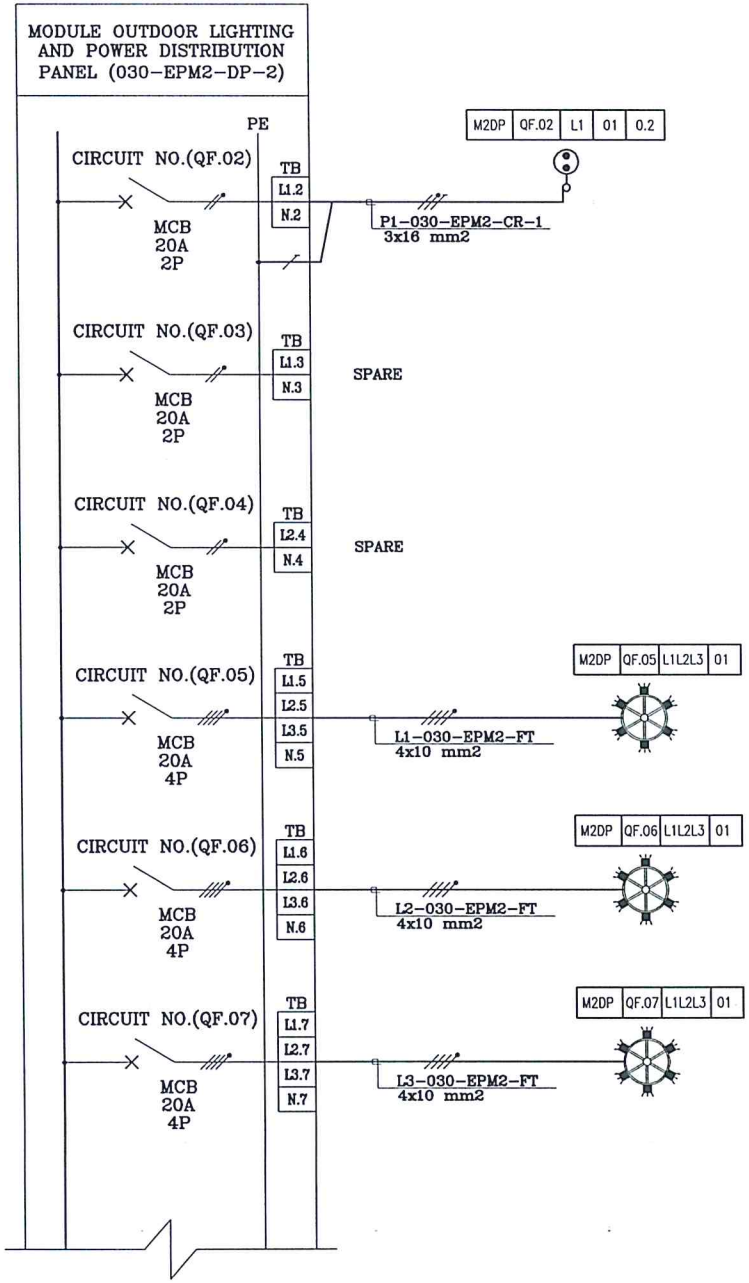
SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	21/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP1-DP-2) CKT. (QF.15 TO QF.19)

المركز الهندسي للصناعات البترولية والكيماوية
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	22/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP2-DP-2) CKT. (QF.02 TO QF.07)

المركز الهندسي للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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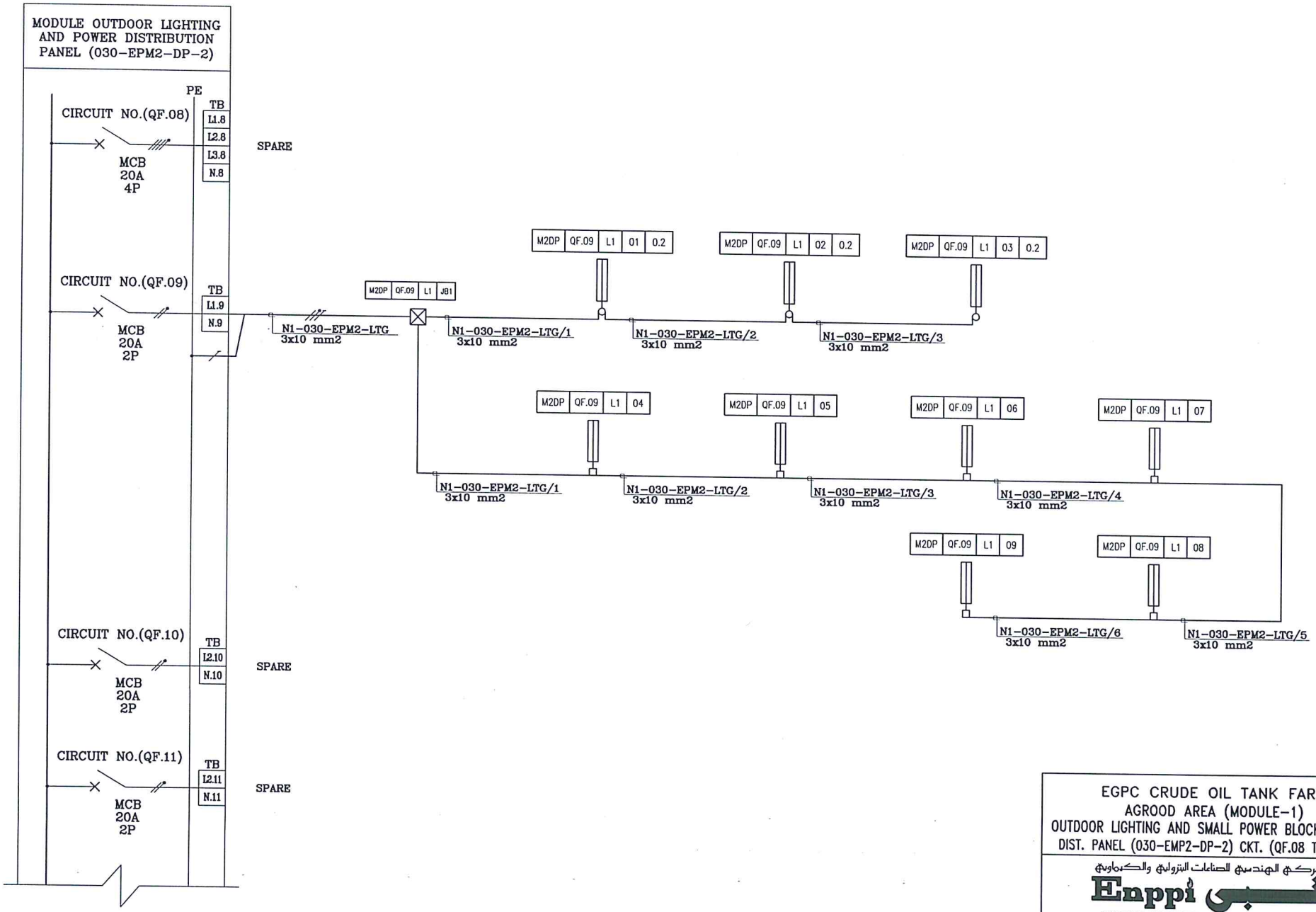
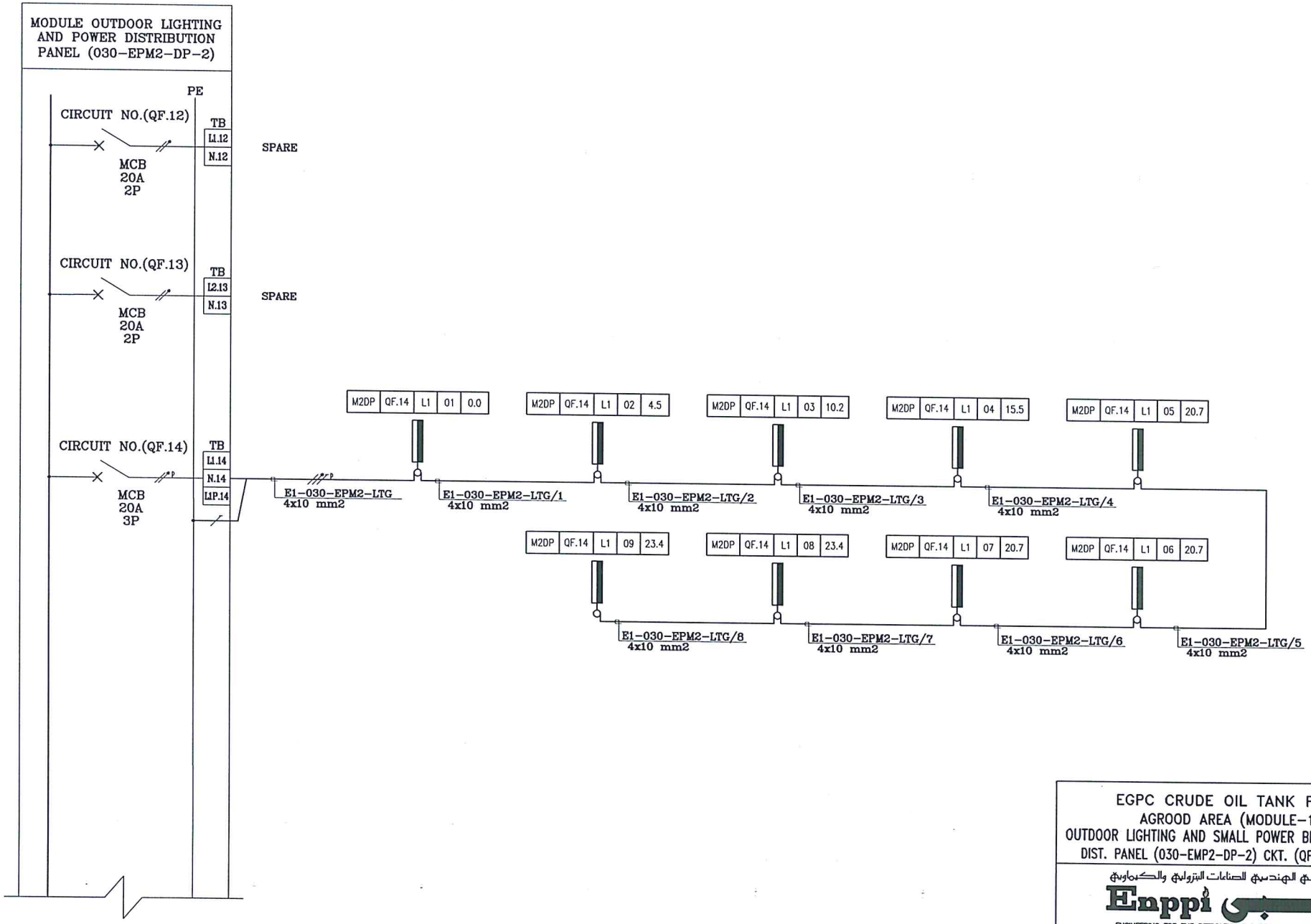


EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP2-DP-2) CKT. (QF.08 TO QF.11)

الحركي الهندسي للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	24/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP2-DP-2) CKT. (QF.12/13/14)

المركز الهندسي للصناعات البترولية والكيماوية
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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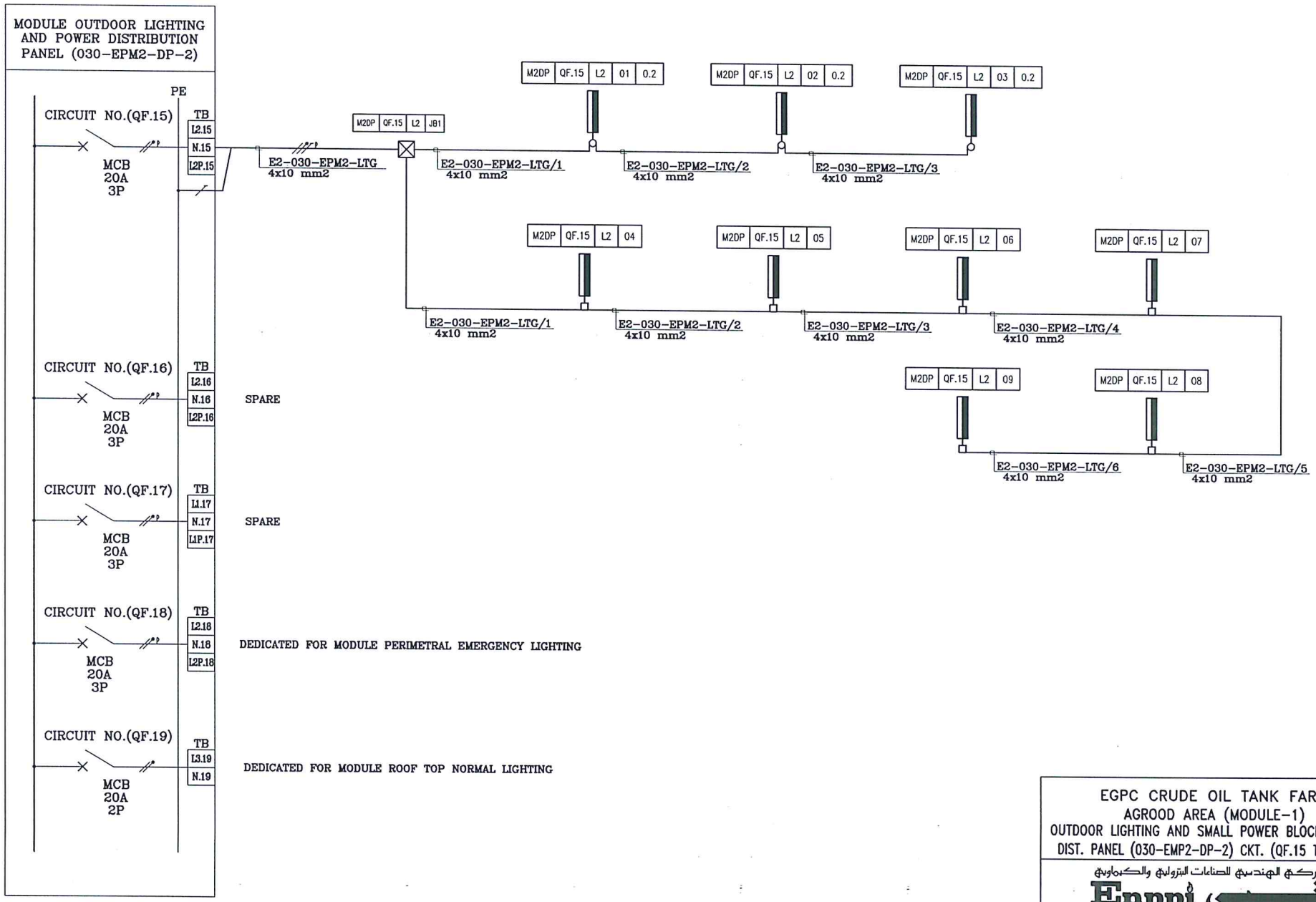

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP2-DP-2) CKT. (QF.15 TO QF.19)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
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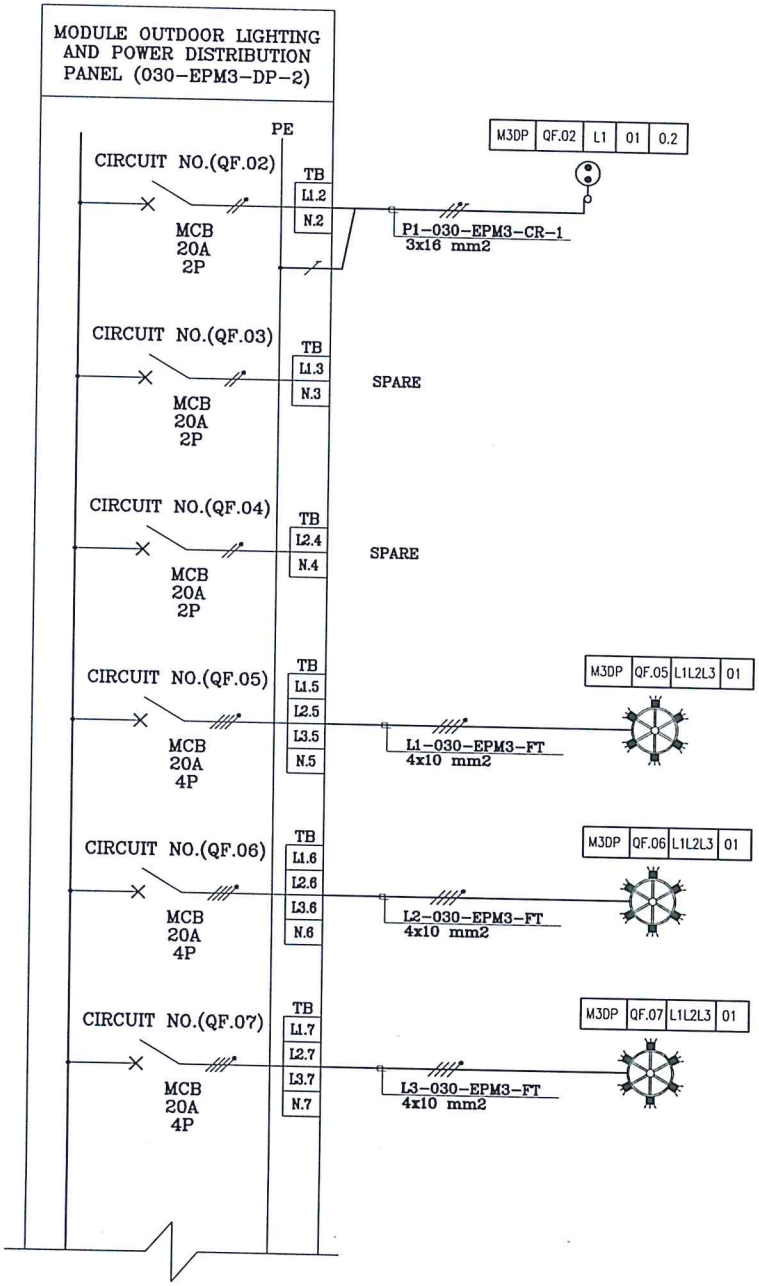
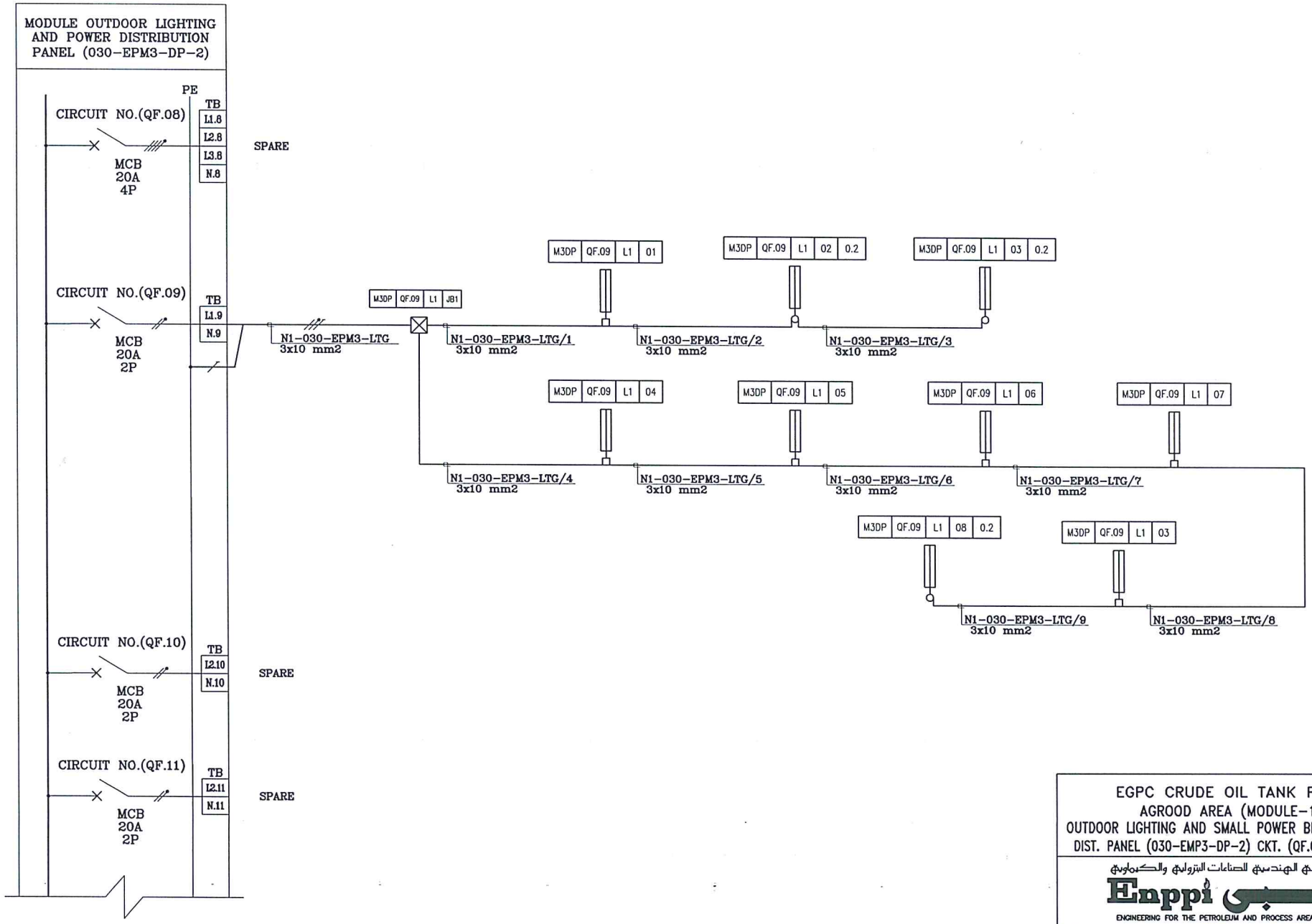


EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP3-DP-2) CKT. (QF.02 TO QF.07)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

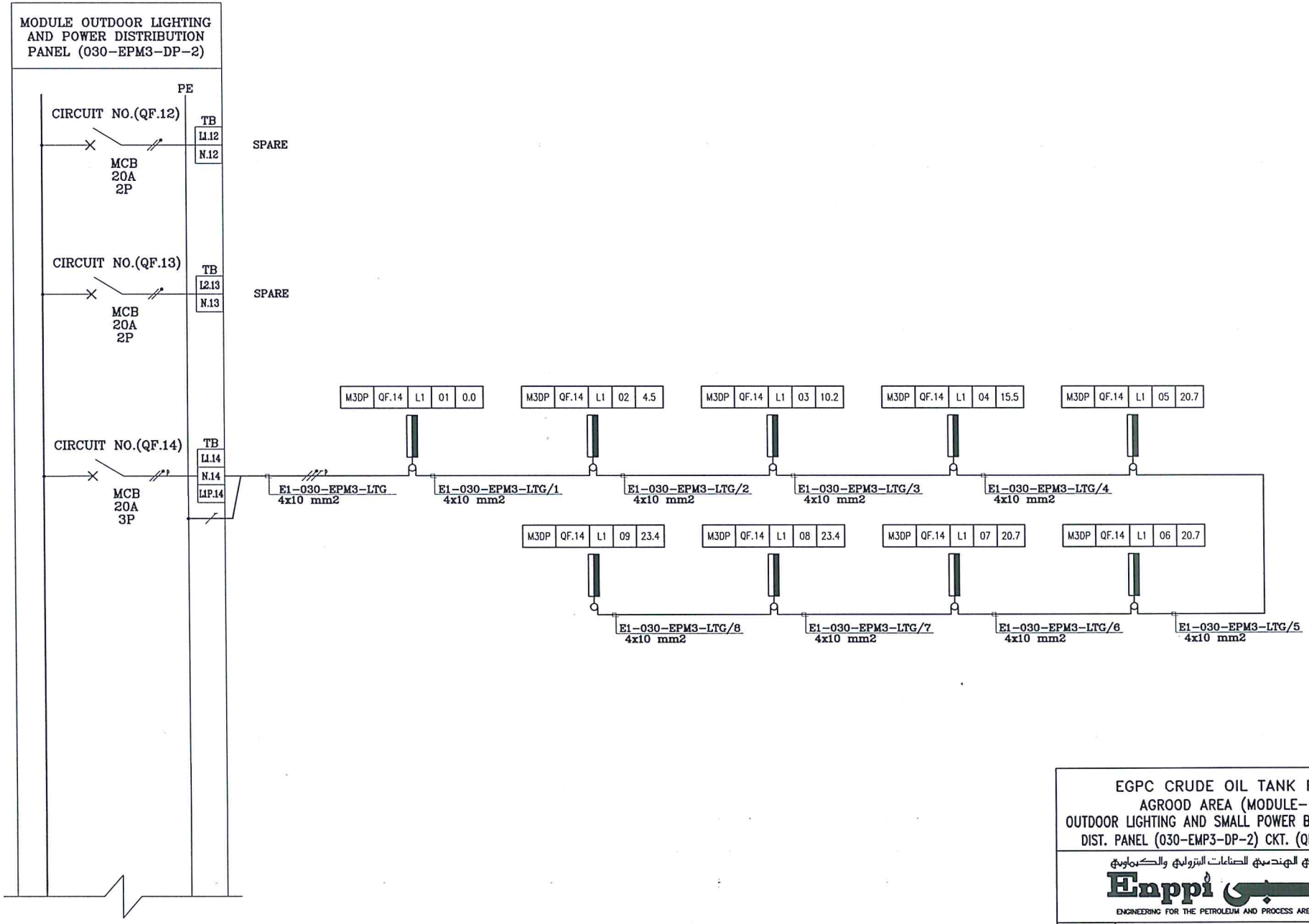
SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	27/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP3-DP-2) CKT. (QF.08 TO QF.11)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

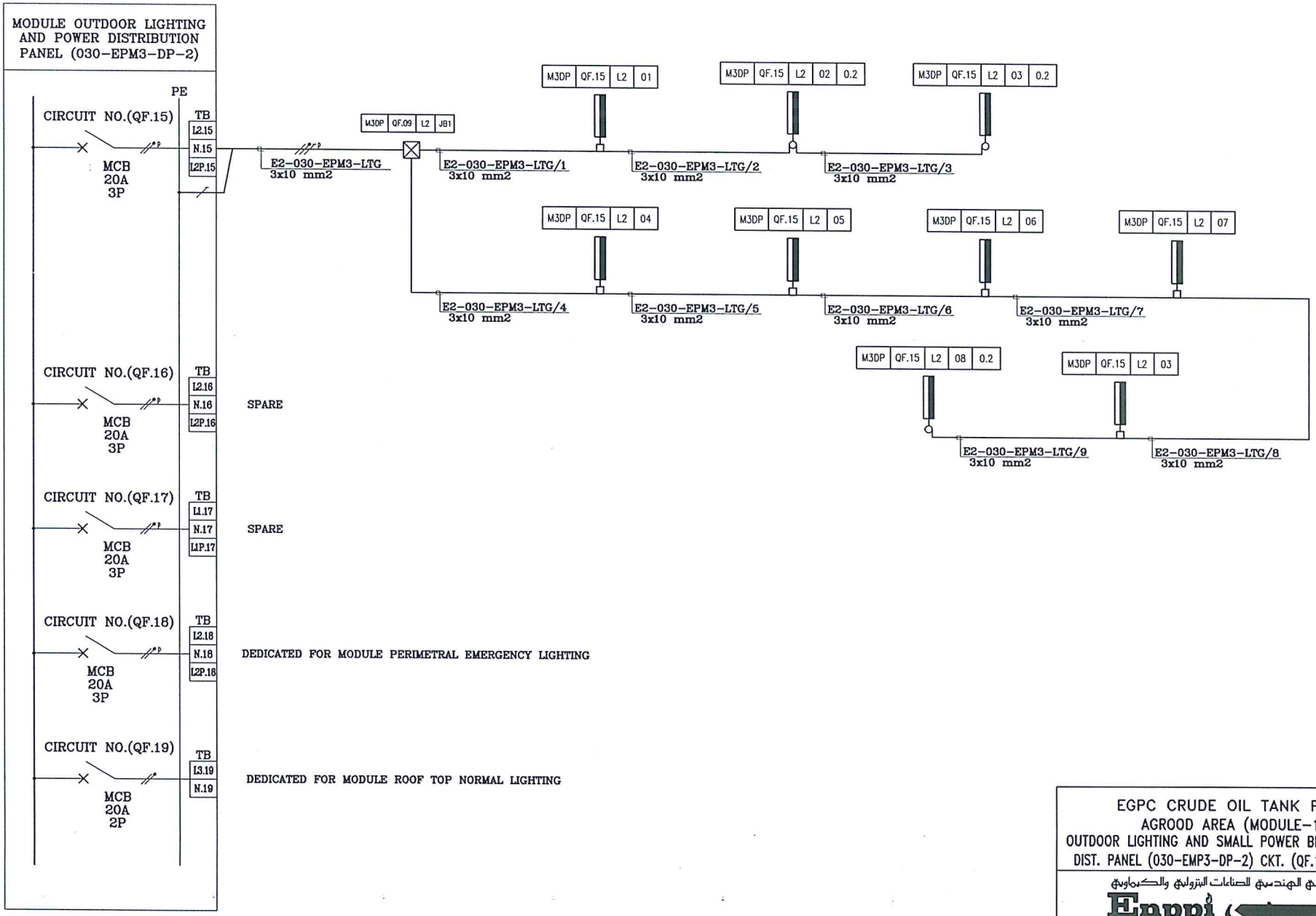
SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	28/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP3-DP-2) CKT. (QF.12/13/14)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

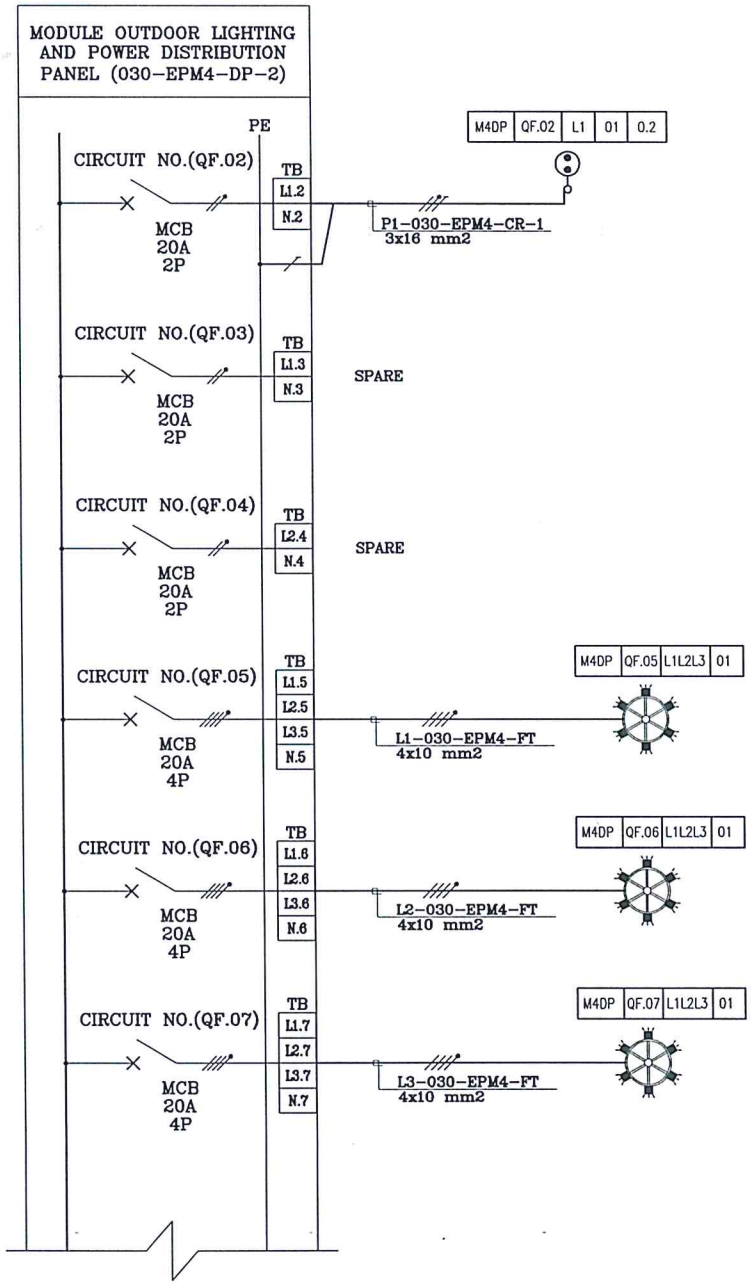
SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	29/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP3-DP-2) CKT. (QF.15 TO QF.19)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

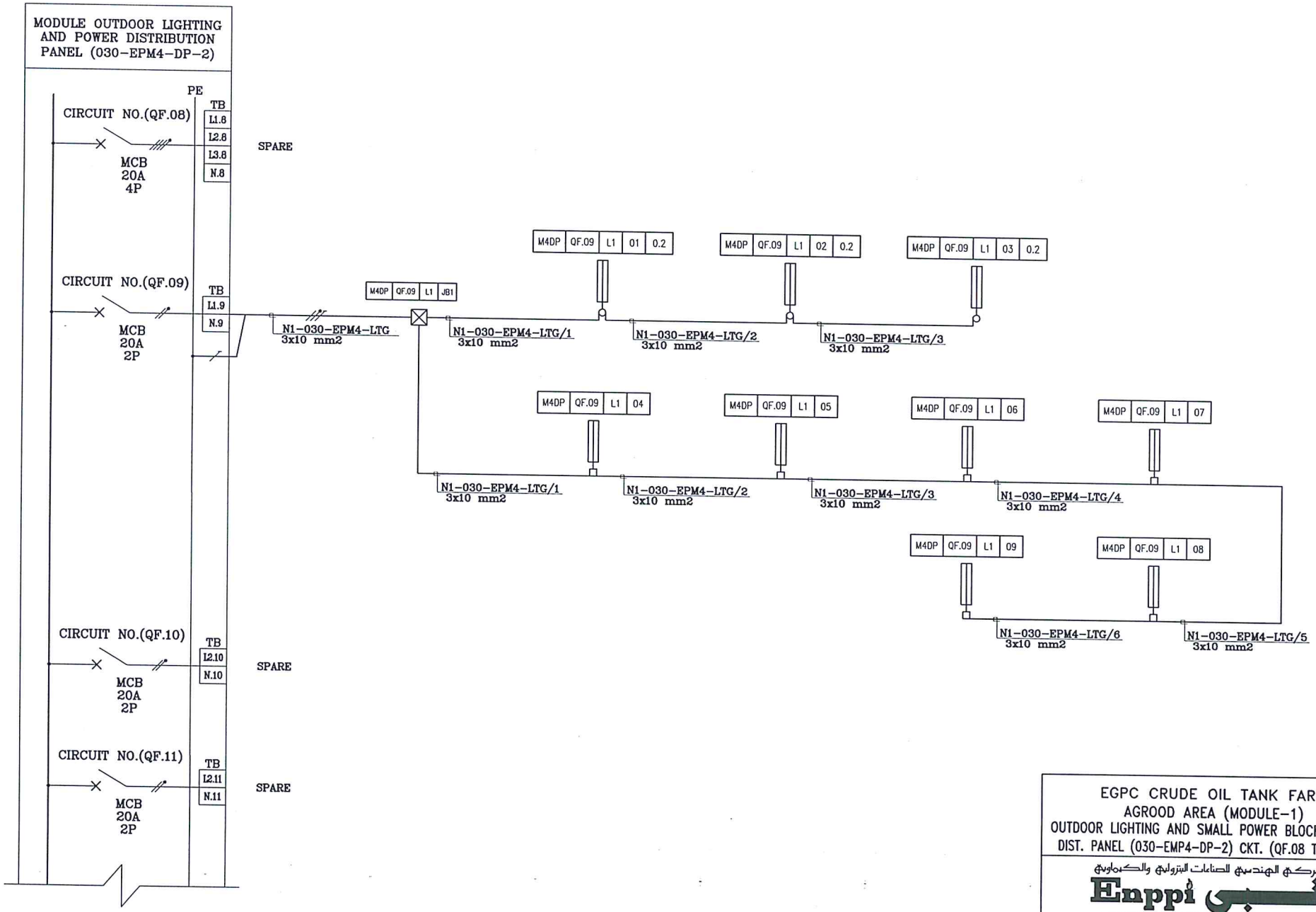
SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	30/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP4-DP-2) CKT. (QF.02 TO QF.07)

المركز الهندسي للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

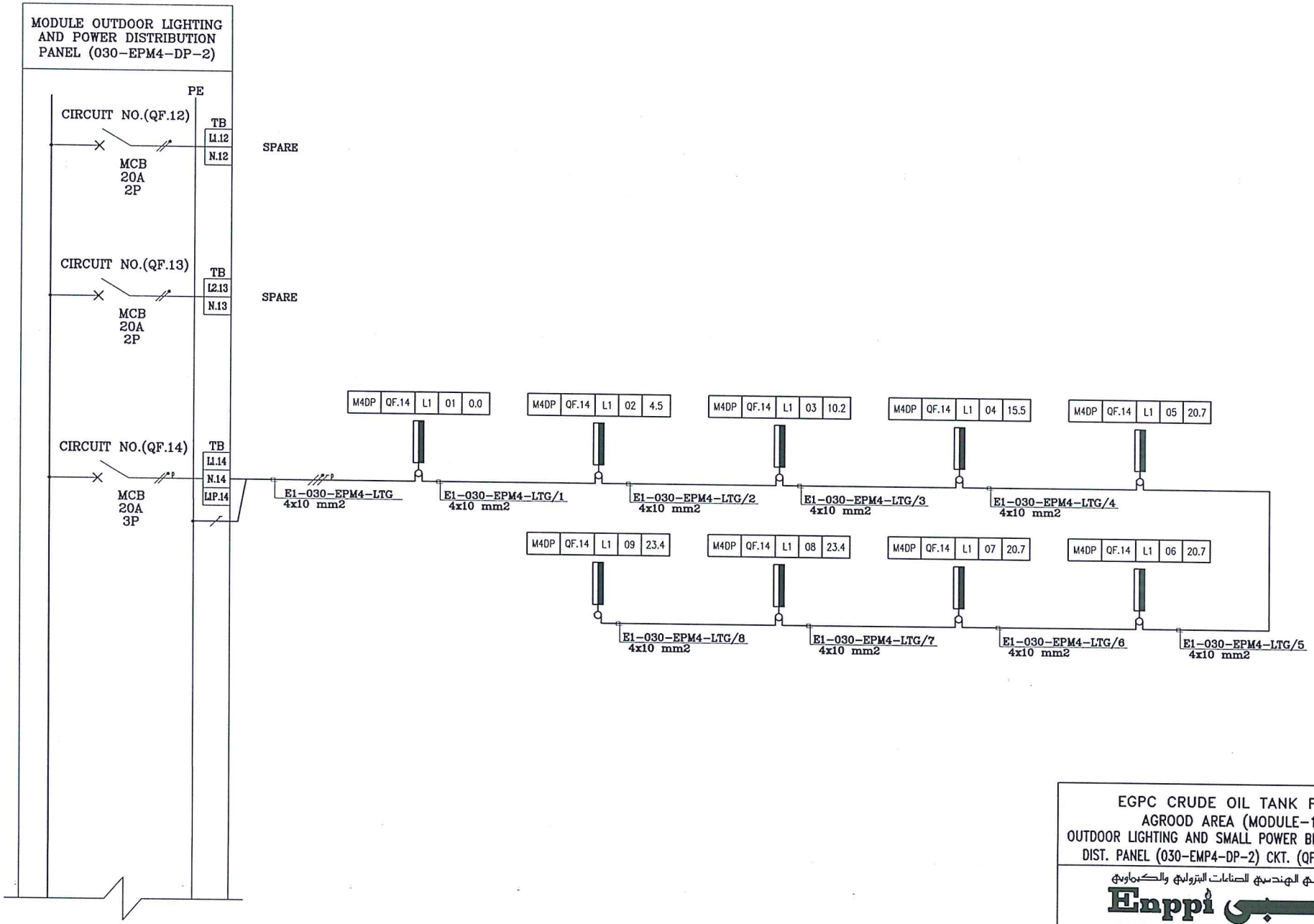
SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	31/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP4-DP-2) CKT. (QF.08 TO QF.11)

المركز الهندسي للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

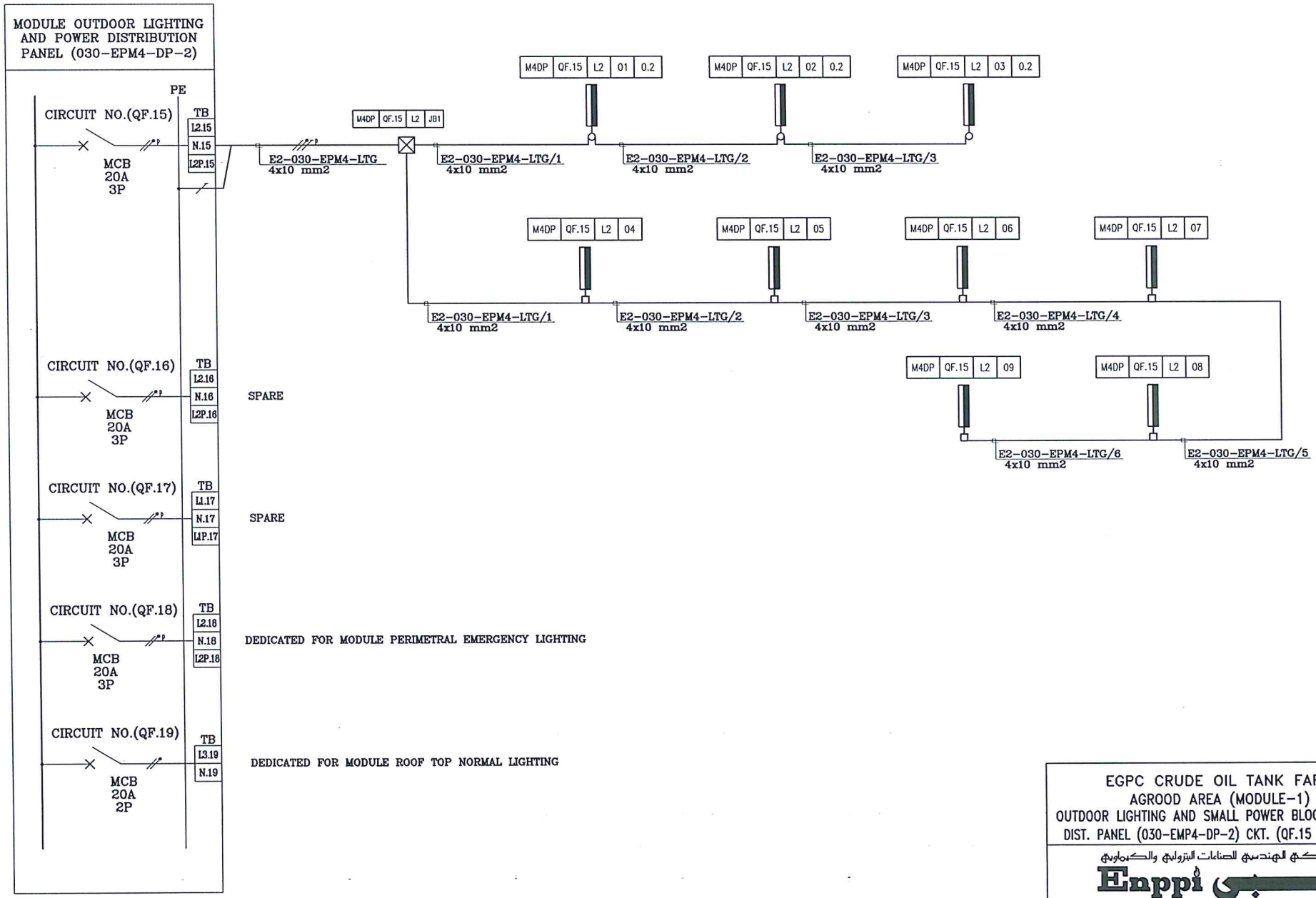
SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	32/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP4-DP-2) CKT. (QF.12/13/14)

المركز الهندسي للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	33/34	0



EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE-1)
OUTDOOR LIGHTING AND SMALL POWER BLOCK DIAGRAM
DIST. PANEL (030-EMP4-DP-2) CKT. (QF.15 TO QF.19)

الشركة الهندسية للصناعات البترولية والكيماوية
Enppi إنبي
ENGINEERING FOR THE PETROLEUM AND PROCESS AREA INDUSTRIES

SCALE	DOCUMENT NUMBER	SHEET	REVISION
NTS	01251-100-030-ELD-001	34/34	0

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12.03- Motor Datasheets

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12.04- Electrical Cables Schedule

PAGE	Cable Mark	GL1	FROM	TO	GL2	CABLEService	Service Voltage	KW	Size	Type	L
38	P-030-LPDP-1	WP	030-SUB-LVSWG-1 (A2-Q8)	030-LPDP-1	EX	3PH POWER FEEDER	400VAC	40	3.5x120	4B	370
38	P1-030-LPDP-CR-JB	EX	030-LPDP-1 (QL.01)	Convenience Receptacle ckt.1 Dist-JB	EX	1PH POWER FEEDER	230VAC		3x16	3E	200
38	P1-030-LPDP-CR-1	EX	Convenience Receptacle ckt.1 Dist-JB	Convenience Receptacle ckt.1 JB-1	EX	1PH POWER FEEDER	230VAC		3x16	3E	35
38	P1-030-LPDP-CR-2	EX	Convenience Receptacle ckt.1 JB-1	Convenience Receptacle ckt.1 JB-2	EX	1PH POWER FEEDER	230VAC		3x16	3E	50
38	P1-030-LPDP-CR-3	EX	Convenience Receptacle ckt.1 Dist-JB	Convenience Receptacle ckt.1 JB-3	EX	1PH POWER FEEDER	230VAC		3x16	3E	125
38	P2-030-LPDP-CR-JB	EX	030-LPDP-1 (QL.02)	Convenience Receptacle ckt.2 Dist-JB	EX	1PH POWER FEEDER	230VAC		3x16	3E	50
38	P2-030-LPDP-CR-1	EX	Convenience Receptacle ckt.2 Dist-JB	Convenience Receptacle ckt.2 JB-1	EX	1PH POWER FEEDER	230VAC		3x16	3E	140
38	P2-030-LPDP-CR-2	EX	Convenience Receptacle ckt.2 Dist-JB	Convenience Receptacle ckt.2 JB-2	EX	1PH POWER FEEDER	230VAC		3x16	3E	120
38	P3-030-LPDP-CR-1	EX	030-LPDP-1 (QL.03)	Convenience Receptacle ckt.3 JB-1	EX	1PH POWER FEEDER	230VAC		3x16	3E	50
38	P3-030-LPDP-CR-2	EX	Convenience Receptacle ckt.3 JB-1	Convenience Receptacle ckt.3 JB-2	EX	1PH POWER FEEDER	230VAC		3x16	3E	50
38	P3-030-LPDP-CR-3	EX	Convenience Receptacle ckt.3 JB-2	Convenience Receptacle ckt.3 JB-3	EX	1PH POWER FEEDER	230VAC		3x16	3E	50
38	P3-030-LPDP-CR-4	EX	Convenience Receptacle ckt.3 JB-3	Convenience Receptacle ckt.3 JB-4	EX	1PH POWER FEEDER	230VAC		3x16	3E	50
39	L1-030-LPDP-SF	EX	030-LPDP-1 (QL.06)	Street / Fence Lighting Circuit No.1	EX	3PH POWER FEEDER	400VAC		4x10	4B	1510
39	L2-030-LPDP-SF	EX	030-LPDP-1 (QL.07)	Street / Fence Lighting Circuit No.2	EX	3PH POWER FEEDER	400VAC		4x10	4B	250
39	L3-030-LPDP-SF	EX	030-LPDP-1 (QL.08)	Street / Fence Lighting Circuit No.3	EX	3PH POWER FEEDER	400VAC		4x10	4B	400
39	L4-030-LPDP-SF	EX	030-LPDP-1 (QL.09)	Street / Fence Lighting Circuit No.4	EX	3PH POWER FEEDER	400VAC		4x10	4B	670
39	L5-030-LPDP-SF	EX	030-LPDP-1 (QL.10)	Street / Fence Lighting Circuit No.5	EX	3PH POWER FEEDER	400VAC		4x10	4B	1170
39	L6-030-LPDP-SF	EX	030-LPDP-1 (QL.11)	Street / Fence Lighting Circuit No.6	EX	3PH POWER FEEDER	400VAC		4x10	4B	1500
39	L7-030-LPDP-SF	EX	030-LPDP-1 (QL.12)	Street / Fence Lighting Circuit No.7	EX	3PH POWER FEEDER	400VAC		4x10	4B	670
39	L8-030-LPDP-SF	EX	030-LPDP-1 (QL.13)	Street / Fence Lighting Circuit No.8	EX	3PH POWER FEEDER	400VAC		4x10	4B	1150
39	L9-030-LPDP-SF	EX	030-LPDP-1 (QL.14)	Street / Fence Lighting Circuit No.9	EX	3PH POWER FEEDER	400VAC		4x10	4B	690
39	L10-030-LPDP-SF	EX	030-LPDP-1 (QL.15)	Street / Fence Lighting Circuit No.10	EX	3PH POWER FEEDER	400VAC		4x10	4B	1190
39	L11-030-LPDP-SF	EX	030-LPDP-1 (QL.16)	Street / Fence Lighting Circuit No.11	EX	3PH POWER FEEDER	400VAC		4x10	4B	1550
39	L12-030-LPDP-SF	EX	030-LPDP-1 (QL.17)	Street / Fence Lighting Circuit No.12	EX	3PH POWER FEEDER	400VAC		4x10	4B	690
39	L13-030-LPDP-SF	EX	030-LPDP-1 (QL.18)	Street / Fence Lighting Circuit No.13	EX	3PH POWER FEEDER	400VAC		4x10	4B	1240
39	N1-030-LPDP-LTG	EX	030-LPDP-1 (QL.21)	Normal Lighting Circuit No.1	EX	1PH POWER FEEDER	230VAC		3x10	3E	400
39	N2-030-LPDP-LTG	EX	030-LPDP-1 (QL.22)	Normal Lighting Circuit No.2	EX	1PH POWER FEEDER	230VAC		3x10	3E	350
39	N3-030-LPDP-LTG	EX	030-LPDP-1 (QL.23)	Normal Lighting Circuit No.3	EX	1PH POWER FEEDER	230VAC		3x10	3E	300
39	N4-030-LPDP-LTG	EX	030-LPDP-1 (QL.24)	Normal Lighting Circuit No.4	EX	1PH POWER FEEDER	230VAC		3x10	3E	450
39	N5-030-LPDP-LTG	EX	030-LPDP-1 (QL.25)	Normal Lighting Circuit No.5	EX	1PH POWER FEEDER	230VAC		3x10	3E	150
39	N6-030-LPDP-LTG	EX	030-LPDP-1 (QL.26)	Normal Lighting Circuit No.6	EX	1PH POWER FEEDER	230VAC		3x10	3E	150
40	E1-030-LPDP-LTG	EX	030-LPDP-1 (QL.33)	Emergency Lighting Circuit No.1	EX	1PH POWER FEEDER	230VAC		4x10	4L	400
40	E2-030-LPDP-LTG	EX	030-LPDP-1 (QL.34)	Emergency Lighting Circuit No.2	EX	1PH POWER FEEDER	230VAC		4x10	4L	350
40	E3-030-LPDP-LTG	EX	030-LPDP-1 (QL.35)	Emergency Lighting Circuit No.3	EX	1PH POWER FEEDER	230VAC		4x10	4L	300
40	E4-030-LPDP-LTG	EX	030-LPDP-1 (QL.36)	Emergency Lighting Circuit No.4	EX	1PH POWER FEEDER	230VAC		4x10	4L	450
40	E5-030-LPDP-LTG	EX	030-LPDP-1 (QL.37)	Emergency Lighting Circuit No.5	EX	1PH POWER FEEDER	230VAC		4x10	4L	150
40	E6-030-LPDP-LTG	EX	030-LPDP-1 (QL.38)	Emergency Lighting Circuit No.6	EX	1PH POWER FEEDER	230VAC		4x10	4L	150
41	P1-030-WR-JB	WP	030-SUB-LVSWG-1 (A2-Q7)	Welding Receptacle ckt.1 Dist-JB	EX	3PH POWER FEEDER	400VAC		3.5x70	4B	140
41	P1-030-WR-1	EX	Welding Receptacle ckt.1 Dist-JB	Welding Receptacle ckt.1 JB-1	EX	3PH POWER FEEDER	400VAC		3.5x70	4B	70
41	P1-030-WR-2	EX	Welding Receptacle ckt.1 Dist-JB	Welding Receptacle ckt.1 JB-2	EX	3PH POWER FEEDER	400VAC		3.5x70	4B	80
41	P2-030-WR-1	WP	030-SUB-LVSWG-1 (B1-Q2)	Welding Receptacle ckt.2 JB-1	EX	3PH POWER FEEDER	400VAC		3.5x70	4B	380
41	P2-030-WR-2	WP	Welding Receptacle ckt.2 JB-1	Welding Receptacle ckt.2 JB-2	EX	3PH POWER FEEDER	400VAC		3.5x70	4B	65

43	P1-030-EPM1-CR-1	EX	030-EPM1-DP-2 (QF.2)	Convenience Receptacles ckt.1	EX	1PH POWER FEEDER	230VAC		3x16	3E	370
43	L1-030-EPM1-FT	EX	030-EPM1-DP-2 (QF.5)	FLOOD TOWER-1	EX	3PH POWER FEEDER	400VAC		4x10	4B	350
43	L2-030-EPM1-FT	EX	030-EPM1-DP-2 (QF.6)	FLOOD TOWER-2	EX	3PH POWER FEEDER	400VAC		4x10	4B	280
43	L3-030-EPM1-FT	EX	030-EPM1-DP-2 (QF.7)	FLOOD TOWER-3	EX	3PH POWER FEEDER	400VAC		4x10	4B	420
43	N1-030-EPM1-LTG	EX	030-EPM1-DP-2 (QF.9)	TANK NORMAL LTG CKT.1	EX	1PH POWER FEEDER	230VAC		3x10	3E	600
43	E1-030-EPM1-LTG	EX	030-EPM1-DP-2 (QF.14)	TANK EMERGENCY LTG CKT.1	EX	1PH POWER FEEDER	230VAC		4x10	4L	400
43	E2-030-EPM1-LTG	EX	030-EPM1-DP-2 (QF.15)	TANK EMERGENCY LTG CKT.2	EX	1PH POWER FEEDER	230VAC		4x10	4L	600
48	P1-030-EPM2-CR-1	EX	030-EPM2-DP-2 (QF.2)	Convenience Receptacles ckt.1	EX	1PH POWER FEEDER	230VAC		3x16	3E	210
48	L1-030-EPM2-FT	EX	030-EPM2-DP-2 (QF.5)	FLOOD TOWER-1	EX	3PH POWER FEEDER	400VAC		4x10	4B	130
48	L2-030-EPM2-FT	EX	030-EPM2-DP-2 (QF.6)	FLOOD TOWER-2	EX	3PH POWER FEEDER	400VAC		4x10	4B	300
48	L3-030-EPM2-FT	EX	030-EPM2-DP-2 (QF.7)	FLOOD TOWER-3	EX	3PH POWER FEEDER	400VAC		4x10	4B	300
48	N1-030-EPM2-LTG	EX	030-EPM2-DP-2 (QF.9)	TANK NORMAL LTG CKT.1	EX	1PH POWER FEEDER	230VAC		3x10	3E	420
48	E1-030-EPM2-LTG	EX	030-EPM2-DP-2 (QF.14)	TANK EMERGENCY LTG CKT.1	EX	1PH POWER FEEDER	230VAC		4x10	4L	300
48	E2-030-EPM2-LTG	EX	030-EPM2-DP-2 (QF.15)	TANK EMERGENCY LTG CKT.2	EX	1PH POWER FEEDER	230VAC		4x10	4L	520
53	P1-030-EPM3-CR-1	EX	030-EPM3-DP-2 (QF.2)	Convenience Receptacles ckt.1	EX	1PH POWER FEEDER	230VAC		3x16	3E	370
53	L1-030-EPM3-FT	EX	030-EPM3-DP-2 (QF.5)	FLOOD TOWER-1	EX	3PH POWER FEEDER	400VAC		4x10	4B	350
53	L2-030-EPM3-FT	EX	030-EPM3-DP-2 (QF.6)	FLOOD TOWER-2	EX	3PH POWER FEEDER	400VAC		4x10	4B	280
53	L3-030-EPM3-FT	EX	030-EPM3-DP-2 (QF.7)	FLOOD TOWER-3	EX	3PH POWER FEEDER	400VAC		4x10	4B	420
53	N1-030-EPM3-LTG	EX	030-EPM3-DP-2 (QF.9)	TANK NORMAL LTG CKT.1	EX	1PH POWER FEEDER	230VAC		3x10	3E	600
53	E1-030-EPM3-LTG	EX	030-EPM3-DP-2 (QF.14)	TANK EMERGENCY LTG CKT.1	EX	1PH POWER FEEDER	230VAC		4x10	4L	400
53	E2-030-EPM3-LTG	EX	030-EPM3-DP-2 (QF.15)	TANK EMERGENCY LTG CKT.2	EX	1PH POWER FEEDER	230VAC		4x10	4L	600
58	P1-030-EPM4-CR-1	EX	030-EPM4-DP-2 (QF.2)	Convenience Receptacles ckt.1	EX	1PH POWER FEEDER	230VAC		3x16	3E	210
58	L1-030-EPM4-FT	EX	030-EPM4-DP-2 (QF.5)	FLOOD TOWER-1	EX	3PH POWER FEEDER	400VAC		4x10	4B	130
58	L2-030-EPM4-FT	EX	030-EPM4-DP-2 (QF.6)	FLOOD TOWER-2	EX	3PH POWER FEEDER	400VAC		4x10	4B	300
58	L3-030-EPM4-FT	EX	030-EPM4-DP-2 (QF.7)	FLOOD TOWER-3	EX	3PH POWER FEEDER	400VAC		4x10	4B	300
58	N1-030-EPM4-LTG	EX	030-EPM4-DP-2 (QF.9)	TANK NORMAL LTG CKT.1	EX	1PH POWER FEEDER	230VAC		3x10	3E	420
58	E1-030-EPM4-LTG	EX	030-EPM4-DP-2 (QF.14)	TANK EMERGENCY LTG CKT.1	EX	1PH POWER FEEDER	230VAC		4x10	4L	300
58	E2-030-EPM4-LTG	EX	030-EPM4-DP-2 (QF.15)	TANK EMERGENCY LTG CKT.2	EX	1PH POWER FEEDER	230VAC		4x10	4L	520

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12.05- Electrical Cables Laying Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12.06- Electrical Cables Testing Certificates

Enppi PETROJET

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE INSULATION RESISTANCE TEST

INSPECTION REPORT NUMBER
PTJ-ELE-RFI-

INSTRUMENT TYPE:
HIGH VOLTAGE INSULATION TESTER-SANWA-MG5000

SERIAL: 17015900385

INSPECTION DATE & TIME: 28/06/2021

DOUCUMENT No.: ITR-EL-0006A

DISPLINE: ELECTRICAL

SYSTEM NO.:

SHEET NO

SERVICE VOLTAGE: 400

TEST VOLTAGE: 1000

AREA / PACKAGE: SUBSTATION

NO	Item/Tag NO.	CABLE SIZE	Continuity Test	PHASE TO PHASE			PHASE TO NUETRAL"M.Ohm"			PHASES & NUETRAL TO ARMOR "M.Ohm"				RESULT	
				BR-BK	BR-GR	BK-GR	BR-B	BK-B	GR-B	BR-ARM	BK-ARM	GR-ARM	B-ARM	Pass	FAIL
37	P-030-MOV-005	4x4	✓											✓	
38	P-030-MOV-007	4x4	✓											✓	
39	P-030-MOV-008	4x4	✓											✓	
40	P-030-LPDP-1	3.5x120	✓											✓	
41	P1-030-WR-JB	3.5x70	✓											✓	
42	P1-030-WR-1	3.5x70	✓											✓	
43	P1-030-WR-2	3.5x70	✓											✓	
44	P2-030-WR-1	3.5x70	✓											✓	
45	P2-030-WR-2	3.5x70	✓											✓	
46	P-030-SOV-105	4x4	✓											✓	
47	P-030-SOV-106	4x4	✓											✓	
48	P-030-PV-052	4x4												✓	
49	P-030-PV-060	4x4												✓	
50															
51															
52															
53															

Phase to phase (o.L)

Remarks :-

Referance :-

	PETROJET	ENPPI	PMC

islamsherif

Enppi PETROJET

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE INSULATION RESISTANCE TEST

INSPECTION REPORT NUMBER: RFI - 207	INSPECTION DATE & TIME	DOUCUMENT No.: ITR-EL-0006A	DISPLINE: ELECTRICAL	SYSTEM NO.:
INSTRUMENT TYPE:	SERIAL:	SERVICE VOLTAGE: 220 v	TEST VOLTAGE: 1kv	SHEET NO / AREA / PACKAGE:

NO	Item/Tag NO.	CABLE SIZE	Continuity Test	PHASE TO PHASE "M.Ohm"			PHASE TO NUETRAL"M.Ohm"			PHASES & NUETRAL TO ARMOR "M.Ohm"				RESULT	
				BR-BK	BR-GR	BK-GR	BR-B	BK-B	GR-B	BR-ARM	BK-ARM	GR-ARM	B-ARM	Pass	FAIL
1	N1-030-EPM3-LTG	3*10	✓	—	—	—	O.L	—	—	—	—	—	—	✓	
2	E1-030-EPM3-LTG	4*10	✓	—	O.L	—	O.L	—	—	—	—	—	—	✓	
3	E2-030-EPM3-LTG	4*10	✓	—	O.L	—	O.L	—	—	—	—	—	—	✓	
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Remarks :-

Referance :-

	PETROJET	ENPPI	PMC
NAME :		Islam Sherif	
SIGNATURE			
DATE			

Enppi	EGPC CRUDE OIL TANK FARM	EGPC

INSPECTION AND TEST REPORT FOR

CABLE INSULATION RESISTANCE TEST

SYSTEM NO.:

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	DOUCUMENT No.	DISPLINE	SHEET NO
RFI-172		ITR-EL-0006A	ELECTRICAL	

INSTRUMENT TYPE:	SERIAL:	SERVICE VOLTAGE:	TEST VOLTAGE:	AREA / PACKAGE:
		220 v	1kv	

NO	Item/Tag NO.	CABLE SIZE	Continuity Test	PHASE TO PHASE "M.Ohm"			PHASE TO NUETRAL"M.Ohm"			PHASES & NUETRAL TO ARMOR "M.Ohm"				RESULT	
				BR-BK	BR-GR	BK-GR	BR-B	BK-B	GR-B	BR-ARM	BK-ARM	GR-ARM	B-ARM	Pass	FAIL
1	L1-030-EPM4-FT	4X10	✓	o.l	o.l	o.l	o.l	o.l	o.l					✓	
2	L2-030-EPM4-FT	4X10	✓	o.l	o.l	o.l	o.l	o.l	o.l					✓	
3	L3-030-EPM4-FT	4X10	✓	o.l	o.l	o.l	o.l	o.l	o.l					✓	
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Remarks :-

Referance :-

	PETROJET	ENPPI	PMC
NAME :		Islam Sherif	
SIGNATURE			
DATE			

Enppi

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE INSULATION RESISTANCE TEST

INSPECTION REPORT NUMBER RFI-159	INSPECTION DATE & TIME	DOUCUMENT No. ITR-EL-0006A	DISPLINE ELECTRICAL	SYSTEM NO.:
INSTRUMENT TYPE:	SERIAL:	SERVICE VOLTAGE: 220 v	TEST VOLTAGE: 1kv	SHEET NO AREA / PACKAGE:

NO	Item/Tag NO.	CABLE SIZE	Continuity Test	PHASE TO PHASE "M.Ohm"			PHASE TO NUETRAL"M.Ohm"			PHASES & NUETRAL TO ARMOR "M.Ohm"				RESULT	
				BR-BK	BR-GR	BK-GR	BR-B	BK-B	GR-B	BR-ARM	BK-ARM	GR-ARM	B-ARM	Pass	FAIL
1	L1-030-EPM3-FT	4X10	✓	0.1	0.1	0.1	0.1	0.1	0.1					✓	
2	L2-030-EPM3-FT	4X10	✓	0.1	0.1	0.1	0.1	0.1	0.1					✓	
3	L3-030-EPM3-FT	4X10	✓	0.1	0.1	0.1	0.1	0.1	0.1					✓	
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Remarks :-

Referance :-

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

® Islam Sherif

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12.07- Electrical Cables Termination Certificates

EGPC CRUDE OIL TANK FARM

EGPC

Owner : Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030
:01251-100-031

Contractor CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-000
Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : CABLE TERMINATION AND TEST

NOTIFICATION NO. : PTJ-ELE-RFI-

DISCIPLINE : ELEC

DATE : : 28/06/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
36	~~P-030-MOV-004~~	FIELD	Hold				
37	~~P-030-MOV-005~~	FIELD					
38	~~P-030-MOV-007~~	FIELD					
39	~~P-030-MOV-008~~	FIELD					
40	P-030-LPDP-1	FIELD	✓				
41	P1-030-WR-JB	SUBSTAION	✓				
42	P1-030-WR-1	FIELD					
43	P1-030-WR-2	FIELD					
44	P2-030-WR-1	SUBSTAION	✓				
45	P2-030-WR-2	FIELD					
46	P-030-SDV-105	FIELD					
47	P-030-SDV-106	FIELD					
48	P-030-PV-052	field					
49	P-030-PV-060	field					
50							
51							
52							
53							
54							

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE		Islam Sherif	
DATE			

Enppi PETROJET

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE TERMINATION AND SPLICING

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	SYSTEM NO.:	DISPLINE	SHEET NO
PTJ-ELE-RFI-	14/06/2021	ITR-EL-0009		ELEC	1 OF 1

Item/Tag NO.	For All Cables tages in PTJ-ELE-RFI-				
Type :-		Core:		Size:	

NO.	Description of check	RESUNT		
		ACCEPT	REJECT	N/A.
1	Check cable glands are correct type and size as per cable schedule.	✓		
2	Check there are no damages to cores, termination chamber layout is satisfactory, core identification is correct, crimped and pins satisfactory.	✓		
3	Check cable tag is done correctly.		✓	
4	Test and confirm conductor, phase continuity.	✓		
5	Check insulation resistance test (megger) is completed *'	✓		
6	Check Hi-pot test is completed, only for MV/HV cables *''			✓
7	Connect all cores at both ends and confirm all connections are correct as per termination diagram.	✓		
8	Confirm spare cores, screens are earthed and conform to design drawings/specifications	✓		
9	Check enclosure cover is installed , no damages and no bolts are missing	✓		
10	Calibration test certificate of testing equipment to be checked.			✓

Remarks :

*' : ITR-EL-006A/B

*'' :ITR-EL-008

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

Enppi

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE 1 & 2)

EGPC

Owner : Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030
:01251-100-031

Contractor CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0001
Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURES INSTALLATION/TERMINATION

NOTIFICATION NO. : PTJ-ELE-RFI-171

DISCIPLINE : ELE

DATE : 4/14/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	M3DP QF05	6 FIXTURES					
	M3DP QF06	6 FIXTURES					
	M3DP QF07	6 FIXTURES					
	L1-030-EPM3-FT						
	L2-030-EPM3-FT						
	L3-030-EPM3-FT						

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :		® Islam Sherif	
SIGNATURE			
DATE			

ITR-QC-0001

Enppi

EGPC CRUDE OIL TANK FARM
AGROOD AREA (MODULE 1 & 2)

EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

LIGHTING FIXTURE INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_149		ITR-EL-0003	ELECTRICAL	

TAG/ CIRCUIT No : PANEL : AREA/PACKGE : SYSTEM NO.:

LAMP TYPE: ☐ FLOURESCENT ☐ HP SODUIM ☑ LED

FIXTURE TYPE: ☐ GROUND STANCHION ☐ PLATEFORM STANCHION ☐ BRACKET TYPE ☐ CEILLING MOUNTED ☐ STREET LIGHTING ☐ FLOODLIGHT TOWER ☐ FENCE LIGHTING ☐ GUARD LIGHTING

ITEM / TAG NO. TYPE

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to fixtures/junction box.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.	✓		✓
4	Lighting pole and support as per drawings.	✓		
5	Welding (if required) and touch up.			✓
6	Anchor bolting / Bolt tightening.	✓		
7	Mounting height / orientation / direction / vertical aligment as per drawings.	✓		
8	Check cable termination, connection, and cable marker.	✓		
9	Assembling compartments properly installed.	✓		
10	Conduit /conduit filled by compound.	✓		
11	Earthing and bonding properly installed.	✓		
12	Lamp test	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :		Islam Sherif	
SIGNATURE			
DATE			

Enppi

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE TERMINATION AND SPLICING

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	SYSTEM NO.	DISPLINE	SHEET NO
PTJ-ELE-RFI-159		ITR-EL-0009		ELEC	1 OF 1

Item/Tag NO.					
Type :-		Core:		Size:	

NO.	Description of check	RESUNT		
		ACCEPT	REJECT	N/A.
1	Check cable glands are correct type and size as per cable schedule.	✓		
2	Check there are no damages to cores, termination chamber layout is satisfactory, core identification is correct, crimped and pins satisfactory.	✓		
3	Check cable tag is done correctly.	✓		
4	Test and confirm conductor, phase continuity.	✓		
5	Check insulation resistance test (megger) is completed *'	✓		
6	Check Hi-pot test is completed, only for MV/HV cables *''			✓
7	Connect all cores at both ends and confirm all connections are correct as per termination diagram.	✓		
8	Confirm spare cores, screens are earthed and conform to design drawings/specifications			✓
9	Check enclosure cover is installed , no damages and no bolts are missing	✓		
10	Calibration test certificate of testing equipment to be checked.	✓		

Remarks :

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

® Islam Sherif

Enppi	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

Owner :	Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor	CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURES INSTALLATION

NOTIFICATION NO. : PTJ-ELE-RFI-116 DISCIPLINE : ELE

DATE : 23/7/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	HIGH MAST LIGHTING FIXTURES INSTALLATION	AGROOD#01					
	M4DP QF05	6 FIXTURES					
	M4DP QF06	6 FIXTURES					
	M4DP QF07	6 FIXTURES					
	L1-030-EPM4-FT						
	L2-030-EPM4-FT						
	L3-030-EPM4-FT						

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

® Islam Sherif

Enppi	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

LIGHTING FIXTURE INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_17		ITR-EL-0003	ELECTRICAL	

TAG/ CIRCUIT No : PANEL : AREA/PACKGE : SYSTEM NO.:

LAMP TYPE: ☐ FLOURESCENT ☐ HP SODUIM ☑ LED

FIXTURE TYPE: ☐ GROUND STANCHION ☐ PLATEFORM STANCHION ☐ BRACKET TYPE ☐ CEILLING MOUNTED ☐ STREET LIGHTING ☐ FLOODLIGHT TOWER ☐ FENCE LIGHTING ☐ GUARD LIGHTING

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to fixtures/junction box.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.	✓		
4	Lighting pole and support as per drawings.	✓		
5	Welding (if required) and touch up.			✓
6	Anchor bolting / Bolt tightening.	✓		
7	Mounting height / orientation / direction / vertical aligment as per drawings.	✓		
8	Check cable termination, connection, and cable marker.	✓		
9	Assembling compartments properly installed.	✓		
10	Conduit /conduit filled by compound.	✓		
11	Earthing and bonding properly installed.	✓		
12	Lamp test	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE		® Islam Sherif	
DATE			

Enppi

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE TERMINATION AND SPLICING

SYSTEM NO.:

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
PTJ-INST-RFI-		ITR-EL-0009	INST	1 OF 1

Item/Tag NO.					
Type :-		Core:		Size:	

NO.	Description of check	RESUNT		
		ACCEPT	REJECT	N/A.
1	Check cable glands are correct type and size as per cable schedule.	✓		
2	Check there are no damages to cores, termination chamber layout is satisfactory, core identification is correct, crimped and pins satisfactory.	✓		
3	Check cable tag is done correctly.	✓		
4	Test and confirm conductor, phase continuity.	✓		
5	Check insulation resistance test (megger) is completed *'	✓		
6	Check Hi-pot test is completed, only for MV/HV cables *''			✓
7	Connect all cores at both ends and confirm all connections are correct as per termination diagram.	✓		
8	Confirm spare cores, screens are earthed and conform to design drawings/specifications			✓
9	Check enclosure cover is installed , no damages and no bolts are missing	✓		
10	Calibration test certificate of testing equipment to be checked.	✓		

Remarks :

*' : ITR-EL-006A/B

*'' :ITR-EL-008

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE		® Islam Sheif	
DATE			

Enppi	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

Owner :	Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor	CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURE INSTALLATION / TERMINATION

NOTIFICATION NO. : PTJ-ELE-RFI-~~204~~ 207 DISCIPLINE : ELE

DATE : : 5/22/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	TANK 03 LIGHTING FIXTURE INSTALLATION /TERMINATION	AGROOD #01					
1	N1-030-EPM3-LTG	9 FIXTURES+1 JB	@f09	(lighting fixture (2,3,9))			not installed clear
2	E1-030-EPM3-LTG	9 FIXTURES	@f14				
3	E2-030-EPM3-LTG	9 FIXTURES+1 JB	@f15	(lighting fixture (2,3,9)			not installed clear
	P1-030-EPM3-LTG-1 1 P-5		@f02	Not installed			

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :		Islam Sherif	
SIGNATURE			
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC
Owner :	Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor	CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURES INSTALLATION / TERMINATION

NOTIFICATION NO. : PTJ-ELE-RFI-~~204~~ 207 DISCIPLINE : ELE

DATE : 22/5/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	TANK 03 LIGHTING FIXTURES INSTALLATION / TERMINATION	AGROOD#01	22/5/2021				
	N1-030-EPM3-LTG						
	E1-030-EPM3-LTG						
	E2-030-EPM3-LTG						

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE		Islam Sherif	
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

LIGHTING FIXTURE INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_17		ITR-EL-0003	ELECTRICAL	

TAG/ CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:

LAMP TYPE: ☐ FLOURESCENT ☐ HP SODUIM ☑ LED

FIXTURE TYPE: ☐ GROUND STANCHION ☐ PLATEFORM STANCHION ☐ BRACKET TYPE ☐ CEILLING MOUNTED ☐ STREET LIGHTING ☑ FLOODLIGHT TOWER ☐ FENCE LIGHTING ☐ GUARD LIGHTING

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to fixtures/junction box.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.	✓		
4	Lighting pole and support as per drawings.	✓		
5	Welding (if required) and touch up.			✓
6	Anchor bolting / Bolt tightening.	✓		
7	Mounting height / orientation / direction / vertical aligment as per drawings.	✓		
8	Check cable termination, connection, and cable marker.	✓		
9	Assembling compartments properly installed.	✓		
10	Conduit /conduit filled by compound.			✓
11	Earthing and bonding properly installed.	✓		
12	Lamp test			✓

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :		Islam Sherif	
SIGNATURE			
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

POWER OUTLET INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI ~~204~~ 207		ITR-EL-0004	ELECTRICAL	

TAG :	CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:

TYPE: ☑ WELDING RECEPTACLE ☐ CONVIENCE OUTLET

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to devices/switches.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.	✓		
4	Welding (if required) and touch up.			✓
5	Anchor bolting / Bolt tightening.	✓		
6	Mounting height / orientation / direction as per drawings.	✓		
7	Check cable termination, connection, and cable marker.	✓		
8	Assembling compartments properly installed.	✓		
9	Conduit /conduit filled by compound.			✓
10	Earthing and bonding properly installed.	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :		Islam Sherif	
SIGNATURE			
DATE			

Enppi PETROJET

EGPC CRUDE OIL TANK FARM

EGPC

INSPECTION AND TEST REPORT FOR

CABLE TERMINATION AND SPLICING

SYSTEM NO.:

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI-207		ITR-EL-0009	ELEC	1 OF 1

Item/Tag NO.					
Type :-		Core:		Size:	

NO.	Description of check	RESUNT		
		ACCEPT	REJECT	N/A.
1	Check cable glands are correct type and size as per cable schedule.	✓		
2	Check there are no damages to cores, termination chamber layout is satisfactory, core identification is correct, crimped and pins satisfactory.	✓		
3	Check cable tag is done correctly.	✓		
4	Test and confirm conductor, phase continuity.	✓		
5	Check insulation resistance test (megger) is completed *'	✓		
6	Check Hi-pot test is completed, only for MV/HV cables *''			✓
7	Connect all cores at both ends and confirm all connections are correct as per termination diagram.	✓		
8	Confirm spare cores, screens are earthed and conform to design drawings/specifications	✓		
9	Check enclosure cover is installed , no damages and no bolts are missing	✓		
10	Calibration test certificate of testing equipment to be checked.			✓

Remarks :

	PETROJET	ENPPI	PMC
NAME :		Islam Sherif	
SIGNATURE			
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

Owner : Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURES INSTALLATION

NOTIFICATION NO. : PTJ-ELE-RFI- 215 DISCIPLINE : ELE

DATE : : 6/16/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	TANK 04 LIGHTING FIXTURES INSTALLATION	AGROOD#02	16-Jun-21				
	N1-030-EPM4-LTG	9 FIXTURES +1 JB	QF09				
	E1-030-EPM4-LTG	9 FIXTURES	QF14				
	E2-030-EPM4-LTG	9 FIXTURES +1 JB	QF15				
	P1-030-EPM4-CR-1	1 PS	QF02				

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

. تم الاختبارات بدون رفع الكهرباء

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

® Islam Sherif

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

LIGHTING FIXTURE INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_ 215		ITR-EL-0003	ELECTRICAL	

TAG/ CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:

LAMP TYPE: ☐ FLOURESCENT ☐ HP SODUIM ☑ LED

FIXTURE TYPE: ☐ GROUND STANCHION ☐ PLATEFORM STANCHION ☐ BRACKET TYPE ☐ CEILLING MOUNTED ☐ STREET LIGHTING ☑ FLOODLIGHT TOWER ☐ FENCE LIGHTING ☐ GUARD LIGHTING

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to fixtures/junction box.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.		✓	
4	Lighting pole and support as per drawings.	✓		
5	Welding (if required) and touch up.	✓		
6	Anchor bolting / Bolt tightening.	✓		
7	Mounting height / orientation / direction / vertical aligment as per drawings.	✓		
8	Check cable termination, connection, and cable marker.	✓		
9	Assembling compartments properly installed.	✓		
10	Conduit /conduit filled by compound.		✓	
11	Earthing and bonding properly installed.	✓		
12	Lamp test	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :		® Islam Sherif	
SIGNATURE			
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

POWER OUTLET INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI 213		ITR-EL-0004	ELECTRICAL	

TAG :	CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:
TYPE:	☑ WELDING RECEPTACLE		☐ CONVIENCE OUTLET	

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to devices/switches.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.		✓	
4	Welding (if required) and touch up.	✓		
5	Anchor bolting / Bolt tightening.	✓		
6	Mounting height / orientation / direction as per drawings.	✓		
7	Check cable termination, connection, and cable marker.	✓		
8	Assembling compartments properly installed.	✓		
9	Conduit /conduit filled by compound.		✓	
10	Earthing and bonding properly installed.	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :		Islam Sherif	
SIGNATURE			
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

Owner : Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030 :01251-100-031

Contractor CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0001
Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURES INSTALLATION

NOTIFICATION NO. : PTJ-ELE-RFI- 229 DISCIPLINE : ELE

DATE : : 6/27/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	LIGHTING FIXTURES INSTALLATION	AGROOD#02	27-Jun-21				
	P1-030-LPDP-CR-JB	JB+3PS					
1	P2-030-LPDP-CR-JB	JB+2PS	(Socket No(2)) not installed				(Done) Sob
	P3-030-LPDP-CR-1	4PS					
	N4-030-LPDP-LTG	JB+7FIXTURES	(Fixtures No (5, 6, 7)) not installed				(Done) Sob
	E4-030-LPDP-LTG	JB+9FIXTURES	(Fixtures No (6, 7, 8, 9)) not installed				
	N5-030-LPDP-LTG	8FICXTURES					(Done) Sob
	N6-030-LPDP-LTG	8FICXTURES					
	E6-030-LPDP-LTG	8FICXTURES					
	E5-030-LPDP-LTG	8FICXTURES					
	~~E5-030-LPDP-LTG 8Fixtures~~						

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

(1) Fixtures boxes plugs are missing (Done) Sob

(2) S.S tag missing (Done) Sob

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE	Sob	® Islam Sherif	
DATE			

Enppi	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

Owner : Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030 :01251-100-031

Contractor CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0001
Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURES INSTALLATION

NOTIFICATION NO. : PTJ-ELE-RFI- 229 DISCIPLINE : ELE

DATE : : 6/27/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	LIGHTING FIXTURES INSTALLATION	AGROOD#01	27-Jun-21				
	N1-030-LPDP-LTG	JB+9FIXTURES					
	E1-030-LPDP-LTG	JB+7FIXTURES					
	N2-030-LPDP-LTG	JB+8FIXTURES					
	E2-030-LPDP-LTG	5FIXTURES					
	N3-030-LPDP-LTG	4FIXTURES					
	E3-030-LPDP-LTG	JB+7FIXTURES	Fixture No (7) Not installed				

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

® Islam Sherif

ITR-QC-0001

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

LIGHTING FIXTURE INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI ~~11~~ 229		ITR-EL-0003	ELECTRICAL	

TAG/ CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:

LAMP TYPE: ☐ FLOURESCENT ☐ HP SODUIM ☑ LED

FIXTURE TYPE: ☐ GROUND STANCHION ☐ PLATEFORM STANCHION ☐ BRACKET TYPE ☐ CEILLING MOUNTED ☐ STREET LIGHTING ☑ FLOODLIGHT TOWER ☐ FENCE LIGHTING ☐ GUARD LIGHTING

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to fixtures/junction box.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.		✓	
4	Lighting pole and support as per drawings.	✓		
5	Welding (if required) and touch up.			✓
6	Anchor bolting / Bolt tightening.	✓		
7	Mounting height / orientation / direction / vertical aligment as per drawings.	✓		
8	Check cable termination, connection, and cable marker.	✓		
9	Assembling compartments properly installed.	✓		
10	Conduit /conduit filled by compound.	✓		
11	Earthing and bonding properly installed.		✓	
12	Lamp test			✓

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE		Islam Sherif	
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

POWER OUTLET INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_~~201~~ 229		ITR-EL-0004	ELECTRICAL	

TAG :	CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:
TYPE:	☑ WELDING RECEPTACLE		☐ CONVIENCE OUTLET	
ITEM / TAG NO.		TYPE		

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to devices/switches.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.		✓	
4	Welding (if required) and touch up.			✓
5	Anchor bolting / Bolt tightening.	✓		
6	Mounting height / orientation / direction as per drawings.	✓		
7	Check cable termination, connection, and cable marker.	✓		
8	Assembling compartments properly installed.	✓		
9	Conduit /conduit filled by compound.	✓		
10	Earthing and bonding properly installed.		✓	

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE	Sobh	® Islam Sherif	
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

Owner :	Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor	CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURES INSTALLATION

NOTIFICATION NO. : PTJ-ELE-RFI- 246 DISCIPLINE : ELE

DATE : : 7/2/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	LIGHTING FIXTURES INSTALLATION	AGROOD#01	2-Jul-21				
	M2DP QF05	6 FIXTURES					
	M2DP QF06	6 FIXTURES					
	M2DP QF07	6 FIXTURES					
	E1-030-EPM2-LTG	9 FIXTURES	QF014				
	E2-030-EPM2-LTG	9 FIXTURES + 1JB	QF015				
	N1-030-EPM2-LTG	9 FIXTURES + 1JB	QF09				
	P1-030-EPM2-CR-1	1 PS	QF02				

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :		islam Sherif	
SIGNATURE			
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

LIGHTING FIXTURE INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_17		ITR-EL-0003	ELECTRICAL	

TAG/ CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:

LAMP TYPE: ☐ FLOURESCENT ☐ HP SODUIM ☑ LED

FIXTURE TYPE: ☑ GROUND STANCHION ☐ PLATEFORM STANCHION ☑ BRACKET TYPE ☐ CEILLING MOUNTED ☐ STREET LIGHTING ☑ FLOODLIGHT TOWER ☐ FENCE LIGHTING ☐ GUARD LIGHTING

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to fixtures/junction box.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.	✓		
4	Lighting pole and support as per drawings.	✓		
5	Welding (if required) and touch up.			✓
6	Anchor bolting / Bolt tightening.	✓		
7	Mounting height / orientation / direction / vertical aligment as per drawings.	✓		
8	Check cable termination, connection, and cable marker.	✓		
9	Assembling compartments properly installed.			✓
10	Conduit /conduit filled by compound.	✓		
11	Earthing and bonding properly installed.	✓		
12	Lamp test	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :		® islam Sherif	
SIGNATURE			
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

POWER OUTLET INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_201		ITR-EL-0004	ELECTRICAL	

TAG :	CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:
TYPE:	☑ WELDING RECEPTACLE		☐ CONVIENCE OUTLET	

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to devices/switches.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.	✓		
4	Welding (if required) and touch up.			✓
5	Anchor bolting / Bolt tightening.	✓		
6	Mounting height / orientation / direction as per drawings.	✓		
7	Check cable termination, connection, and cable marker.	✓		
8	Assembling compartments properly installed.			✓
9	Conduit /conduit filled by compound.	✓		
10	Earthing and bonding properly installed.	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE		® Islam Sherif	
DATE			

Enppi / PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

Owner : Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURES INSTALLATION

NOTIFICATION NO. : PTJ-ELE-RFI-247 DISCIPLINE : ELE

DATE : : 7/29/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	LIGHTING FIXTURES INSTALLATION	AGROOD#01	2-Jul-21 29				
	M1DP QF05	6 FIXTURES					
	M1DP QF06	6 FIXTURES					
	M1DP QF07	6 FIXTURES					
	E1-030-EPM1-LTG	9 FIXTURES	QF014				
	E2-030-EPM1-LTG	9 FIXTURES + 1JB	QF015				
	N1-030-EPM1-LTG	9 FIXTURES + 1JB	QF09				
	P1-030-EPM1-CR-1	1 PS	QF02				

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE		Islam Sherif	
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

LIGHTING FIXTURE INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_		ITR-EL-0003	ELECTRICAL	

TAG/ CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:

LAMP TYPE: ☐ FLOURESCENT ☐ HP SODUIM ☑ LED

FIXTURE TYPE: ☐ GROUND STANCHION ☑ PLATEFORM STANCHION ☑ BRACKET TYPE ☐ CEILLING MOUNTED ☐ STREET LIGHTING ☐ FLOODLIGHT TOWER ☐ FENCE LIGHTING ☐ GUARD LIGHTING

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to fixtures/junction box.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.	✓		
4	Lighting pole and support as per drawings.	✓		
5	Welding (if required) and touch up.			✓
6	Anchor bolting / Bolt tightening.	✓		
7	Mounting height / orientation / direction / vertical aligment as per drawings.	✓		
8	Check cable termination, connection, and cable marker.	✓		
9	Assembling compartments properly installed.	✓		
10	Conduit /conduit filled by compound.	✓		
11	Earthing and bonding properly installed.	✓		
12	Lamp test			✓

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE		® Islam Sherif	
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

POWER OUTLET INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_201		ITR-EL-0004	ELECTRICAL	

TAG :	CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:
TYPE:	☑ WELDING RECEPTACLE		☐ CONVIENCE OUTLET	

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to devices/switches.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.	✓		
4	Welding (if required) and touch up.			✓
5	Anchor bolting / Bolt tightening.	✓		
6	Mounting height / orientation / direction as per drawings.	✓		
7	Check cable termination, connection, and cable marker.	✓		
8	Assembling compartments properly installed.	✓		
9	Conduit /conduit filled by compound.	✓		
10	Earthing and bonding properly installed.	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE		® islam sherif	
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

Owner : Egyptian General Petroleum Corporation (EGPC)	Project No: 01251-100-030 :01251-100-031
Contractor CONSORTIUM (ENPPI / PETROJET)	Document No: ITR-QC-0001 Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURES INSTALLATION

NOTIFICATION NO. : PTJ-ELE-RFI-252 DISCIPLINE : ELE

DATE : : 7/27/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	LIGHTING FIXTURES INSTALLATION	AGROOD#01	27-Jul-21				
	L3-030-LPDP-SF	1JB+6FIXTURES	✓				
	L4-030-LPDP-SF	20FIXTURES	✓				
	L5-030-LPDP-SF	20FIXTURES	✓				
	L6-030-LPDP-SF	14FIXTURES	✓				
	L7-030-LPDP-SF	20FIXTURES	✓				
	L8-030-LPDP-SF	18FIXTURES	✓				

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

Marked-up to be Considered

	PETROJET	ENPPI	PMC
NAME :		Islam Sherif	
SIGNATURE			
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

LIGHTING FIXTURE INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_ 252		ITR-EL-0003	ELECTRICAL	

TAG/ CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:

LAMP TYPE: ☐ FLOURESCENT ☐ HP SODUIM ☑ LED

FIXTURE TYPE: ☐ GROUND STANCHION ☐ PLATEFORM STANCHION ☐ BRACKET TYPE ☐ CEILLING MOUNTED
☑ STREET LIGHTING ☐ FLOODLIGHT TOWER ☐ FENCE LIGHTING ☐ GUARD LIGHTING

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to fixtures/junction box.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.	✓		
4	Lighting pole and support as per drawings.	✓		
5	Welding (if required) and touch up.			✓
6	Anchor bolting / Bolt tightening.	✓		
7	Mounting height / orientation / direction / vertical aligment as per drawings.	✓		
8	Check cable termination, connection, and cable marker.	✓		
9	Assembling compartments properly installed.	✓		
10	Conduit /conduit filled by compound.	✓		
11	Earthing and bonding properly installed.	✓		
12	Lamp test	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

POWER OUTLET INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_~~201~~ 252		ITR-EL-0004	ELECTRICAL	

TAG :	CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:
TYPE:	☑ WELDING RECEPTACLE		☐ CONVIENCE OUTLET	

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to devices/switches.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.	✓		
4	Welding (if required) and touch up.			✓
5	Anchor bolting / Bolt tightening.	✓		
6	Mounting height / orientation / direction as per drawings.	✓		
7	Check cable termination, connection, and cable marker.	✓		
8	Assembling compartments properly installed.	✓		
9	Conduit /conduit filled by compound.	✓		
10	Earthing and bonding properly installed.	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

Owner : Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030 :01251-100-031

Contractor CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0001
Revision No. : 00

REQUEST FOR INSPECTION

ACTIVITY : LIGHTING FIXTURES INSTALLATION

NOTIFICATION NO. : PTJ-ELE-RFI- 258 DISCIPLINE : ELE

DATE : : 9/7/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	LIGHTING FIXTURES INSTALLATION	AGROOD#01	7-Sep-21				
✓	L9-030-LPDP-SF	20FIXTURES					
✓	L10-030-LPDP-SF	26FIXTURES					
✓	L11-030-LPDP-SF	15FIXTURES					
✓	L12-030-LPDP-SF	19FIXTURES	19 fix				
✓	L13-030-LPDP-SF	23FIXTURES	23 fix				

NOTE:

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE		Islam Sherif	
DATE	9/7/2021		

Enppi PETROJET	EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 & 2)	EGPC

LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR

LIGHTING FIXTURE INSTALLATION CHECK LIST

INSPECTION REPORT NUMBER	INSPECTION DATE & TIME	ITR NUMBER	DISPLINE	SHEET NO
RFI_ 258		ITR-EL-0003	ELECTRICAL	

TAG/ CIRCUIT No :	PANEL :	AREA/PACKGE :	SYSTEM NO.:

LAMP TYPE: ☐ FLOURESCENT ☐ HP SODUIM ☑ LED

FIXTURE TYPE: ☐ GROUND STANCHION ☐ PLATEFORM STANCHION ☐ BRACKET TYPE ☐ CEILLING MOUNTED ☐ STREET LIGHTING ☐ FLOODLIGHT TOWER ☑ FENCE LIGHTING ☐ GUARD LIGHTING

ITEM / TAG NO.		TYPE	

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to fixtures/junction box.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.		✓	
4	Lighting pole and support as per drawings.	✓		
5	Welding (if required) and touch up.			✓
6	Anchor bolting / Bolt tightening.	✓		
7	Mounting height / orientation / direction / vertical aligment as per drawings.	✓		
8	Check cable termination, connection, and cable marker.	✓		
9	Assembling compartments properly installed.	✓		
10	Conduit /conduit filled by compound.			✓
11	Earthing and bonding properly installed.	✓		
12	Lamp test	✓		

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

® Islam Sherif

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12.08- FAT Reports & Certificates

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12.09- SAT Reports & Certificates

PETROJET Enppi

Petroleum Pipelines Company
شركة أنابيب البترول

EGPC

Indoor and Outdoor Lighting Lux Test
Certificate of Completion and Acceptance

Client	Egyptian General Petroleum Corporation (EGPC)
Project No.	1251-100
Project Description	Crude Oil Tank Farm Project
Location	Agrood Area 30 (Module-01)
Systems	• (030-EL-007) Substation Building Lighting and Small Power System • (030-EL-014) Plant Area Lighting and Small Power System
Completion Date	27 of October 2021
Attachments	• Lux Test Measurements Values.

Remarks

- This is to certify that the systems described in this certificate of completion has been lux tested using a calibrated lux meter after final installation and signing of the mechanical completion and RFSU for all lighting systems in accordance with the requirements of the scope of work.
- Lux test has been witnessed by client representatives and accepted as complete in all aspects on the data marked on the certificate of completion and acceptance.
- The test has been completed to the client satisfaction with no comments raised.

Performed by **PETROJET**	Supervised by **ENPPI**	Approved by **PPC**
Name: Sabby Seleem	Name:	Name: Mohamed Ibrahim
Title: E&I Qc Engineer	Title:	Title: Elec. manager.
Signature:	Signature: ® Islam Sherif	Signature:
Date: 28-10-2021	Date:	Date: 28-10-2021

Enppi PETROJET

EGPC

Lux Test Reading for Outdoor and Indoor Lighting for Agrood Area 30 (Module-01)

Location	API RP 540 Value (Lux)	Actual Tested Value (Lux)
Indoor (SWG Room)	50	425
Indoor (Control Room)	50	575
Indoor (Office Room)	50	542
Indoor (Cellar Room)	50	67
Indoor (Telecom. Room)	50	570
Indoor (Security Room)	50	685
Indoor (Battery Room)	50	375
Outdoor (Tank 01 Dike)	5	9
Outdoor (Tank 02 Dike)	5	11
Outdoor (Tank 03 Dike)	5	10
Outdoor (Tank 04 Dike)	5	10
Fire Pumps Area	50	75
Shipping Pumps Area	50	55
Northern Street	10	30
Southern Street	10	30
Eastern Street	10	35
Western Street	10	35

Remarks:

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12.10- Electrical Pre-Commissioning Check Lists

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E1-030-EPM4-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All trays must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E1-030-EPM4-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E1-030-EPM3-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.		

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E1-030-EPM3-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E1-030-EPM1-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E1-030-EPM1-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
18	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E1-030-EPM2-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Curreded & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E1-030-EPM2-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E2-030-EPM3-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E2-030-EPM3-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E2-030-EPM2-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E2-030-EPM2-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E2-030-EPM1-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	Sobhi	® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E2-030-EPM1-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E1-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E1-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E4-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E4-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
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SIGNATURE			
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E3-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E3-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E2-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E2-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
~~MEDIUM~~ LOW VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E2-030-EPM4-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & Installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	Sabh	® Islam Sherif	
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E2-030-EPM4-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L1-030-EPM2-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	Sabry	® Islam Sherif	
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L1-030-EPM2-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L1-030-EPM1-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L1-030-EPM1-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E6-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E6-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E5-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: E5-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L2-030-EPM3-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	Sobh	® Islam Sherif	
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L2-030-EPM3-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L1-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L1-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L1-030-EPM3-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Crrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	Sobhy		
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L1-030-EPM3-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
~~MEDIUM~~ Low VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L1-030-EPM4-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
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DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L1-030-EPM4-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
~~MEDIUM~~ LOW VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L2-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L2-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
LOW
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L2-030-EPM4-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L2-030-EPM4-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L2-030-EPM2-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L2-030-EPM2-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L3-030-EPM3-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L3-030-EPM3-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L3-030-EPM2-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be installed & corrected

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L3-030-EPM2-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L3-030-EPM1-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	Sobh		
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L3-030-EPM1-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	Sobh		
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L8-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L8-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

Low

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L7-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All Tages must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L7-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L6-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L6-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L5-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	Sobh		
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L5-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L4-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L4-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L3-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	Sabh		
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L3-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L3-030-EPM4-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L3-030-EPM4-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	Sobh		
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-LPDP-CR-2	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-LPDP-CR-2	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-LPDP-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-LPDP-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-EPM4-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-EPM4-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
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10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-EPM3-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All trays must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-EPM3-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
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SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-EPM2-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	Sobh	® Islam Sherif	
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10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-EPM2-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
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10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
LOW
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-EPM1-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-EPM1-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P-030-LPDP-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P-030-LPDP-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N6-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N6-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P2-030-LPDP-CR-2	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
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10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P2-030-LPDP-CR-2	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
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DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P2-030-LPDP-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
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10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P2-030-LPDP-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
LOW
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-WR-JB	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tagges must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE	Sobh		
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-WR-JB	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
LOW
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-WR-2	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-WR-2	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-WR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-WR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-LPDP-CR-JB	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-LPDP-CR-JB	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-LPDP-CR-3	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All Tages must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		islam Sherif	
SIGNATURE	Sobh		
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P1-030-LPDP-CR-3	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P3-030-LPDP-CR-4	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P3-030-LPDP-CR-4	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P3-030-LPDP-CR-3	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P3-030-LPDP-CR-3	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P3-030-LPDP-CR-2	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P3-030-LPDP-CR-2	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P3-030-LPDP-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P3-030-LPDP-CR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P2-030-WR-2	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P2-030-WR-2	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
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10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P2-030-WR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE	Sobh	® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P2-030-WR-1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	DISCIPLINE	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	SYSTEM ID	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	SUB-SYSTEM ID	: 030-EL-014
ITEM TAG No.	: P2-030-LPDP-CR-JB	AREA	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		Islam Sherif	
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: P2-030-LPDP-CR-JB	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
Low
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L2-030-EPM1-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	—	
2	Check cables are correctly fixed to trays and supports.	—	
3	Check cables through walls or ceilings are correctly sealed.	—	
4	Check that all cables are installed in accordance with cable lists and approved documents.	—	
5	Check identification tags of all conductors and wires.	—	
6	Check connection, termination and joints of cables are correctly executed.	—	
7	Inspect cables for jacket damage.	—	
8	Ensure that the correct size and type of crimping lugs have been used.	—	
9	Check that the bending radius of cables is not less than the minimum established.	—	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	—	
11	Tie wraps to be used for cable and wires fixation.	—	

REMARKS AND OBSERVATIONS :

All trays must be corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L2-030-EPM1-FT	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L13-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE			
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L13-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L12-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L12-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L11-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS : All tags must be Corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L11-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L10-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.		
2	Check cables are correctly fixed to trays and supports.		
3	Check cables through walls or ceilings are correctly sealed.		
4	Check that all cables are installed in accordance with cable lists and approved documents.		
5	Check identification tags of all conductors and wires.		
6	Check connection, termination and joints of cables are correctly executed.		
7	Inspect cables for jacket damage.		
8	Ensure that the correct size and type of crimping lugs have been used.		
9	Check that the bending radius of cables is not less than the minimum established.		
10	Cable markers to be installed before covering buried cables or cables in cable trays.		
11	Tie wraps to be used for cable and wires fixation.		

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		Islam Sherif	
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L10-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
18	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L9-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.		
2	Check cables are correctly fixed to trays and supports.		
3	Check cables through walls or ceilings are correctly sealed.		
4	Check that all cables are installed in accordance with cable lists and approved documents.		
5	Check identification tags of all conductors and wires.		
6	Check connection, termination and joints of cables are correctly executed.		
7	Inspect cables for jacket damage.		
8	Ensure that the correct size and type of crimping lugs have been used.		
9	Check that the bending radius of cables is not less than the minimum established.		
10	Cable markers to be installed before covering buried cables or cables in cable trays.		
11	Tie wraps to be used for cable and wires fixation.		

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE			
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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: L9-030-LPDP-SF	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
~~MEDIUM~~ LOW VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N5-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif	
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N5-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N4-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed.

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N4-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
18	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE	Sobh		
DATE			

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
/LOW
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N3-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		® Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N3-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	NA	
18	Calibration test certificate of testing equipment to be checked.	NA	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N2-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N2-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N1-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N1-030-LPDP-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	—	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	—	
14	Inspect cable laid in trenches, segregation and protection.	—	
15	Cables to be tested (continuity/insulation resistance).(*)	—	
16	Equipment test report and inspection certificate to be-checked.	—	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME		Islam Sherif	
SIGNATURE			
DATE			

10000-Z-000-EK7-TMP-0017 (03/14)

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N1-030-EPM4-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

All tages must be Corrected & installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

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10000-Z-000-EK7-TMP-0017 (03/14)

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N1-030-EPM4-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N1-030-EPM3-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N1-030-EPM3-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N1-030-EPM2-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N1-030-EPM2-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N1-030-EPM1-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

REMARKS AND OBSERVATIONS :

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: N1-030-EPM1-LTG	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
18	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

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PRE-COMMISSIONING CHECK LIST
MEDIUM VOLTAGE CABLES
EL-31 A

INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

Enppi

PRE-COMMISSIONING CHECK LIST
LOW VOLTAGE CABLES
EL-30 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: 030-LPDP - 1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	✓	

REMARKS AND OBSERVATIONS :

All tags must be corrected & installed

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10000-Z-000-EK7-TMP-0014 (03/14)

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PRE-COMMISSIONING CHECK LIST
LOW VOLTAGE CABLES
EL-30 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: 030-LPDP - 1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	N/A	
19	Calibration test certificate of testing equipment to be checked.	N/A	

REMARKS AND OBSERVATIONS :

(*) Refer to table (III).

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

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PRE-COMMISSIONING CHECK LIST
LOW VOLTAGE CABLES
EL-30 A

INSULATION TEST

LOW VOLTAGE CABLES

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
1000V	1000V	200

TABLE [III]

NOTES:

Manufacture's test voltage & minimum values for insulation resistance should be referenced.

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PRE-COMMISSIONING CHECK LIST
SOCKETS
EL-24 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: 030-LPDP - 1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check to ensure that all the sockets fittings meet the requirement of Hazardous area classification.	✓	
3	Check location and fixing method of sockets in accordance with approved drawings.	✓	
4	Inspect sockets for mechanical damage.	✓	
5	Check that sockets are correctly located and not obstructed by other equipments.	✓	
6	Check equipment fixings and mountings are secure.	✓	
7	Check cable circuit connections to sockets against the approved drawing.	✓	
8	Check circuit numbering and correct identification label.	✓	
9	Check sockets inside & outside cleaning.	✓	
10	Check sockets for sealing & tightening.	✓	
11	Earthing connections to the earthing grid to be checked.	✓	

REMARKS AND OBSERVATIONS :

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PRE-COMMISSIONING CHECK LIST
SOCKETS
EL-24 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: 030-LPDP - 1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Plugs of socket outlets fit properly and mechanical interlocks operate correctly.	✓	
13	Junction boxes are well sealed and holes that are not used to be plugged with plugs suiting hazardous area classification.	✓	
14	Contractor marked up drawings is available.	✓	

REMARKS AND OBSERVATIONS :

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
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DATE			

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Enppi

PRE-COMMISSIONING CHECK LIST
LIGHTING AND SMALL POWER MATERIAL
EL-23 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: 030-LPDP - 1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
1	Construction punch list to be checked.	✓	
2	Check to ensure that all the fittings meet the requirement of Hazardous area classification.	✓	
3	Check location and fixing method of light fittings in accordance with approved drawings.	✓	
4	Inspect light fittings for mechanical damage.	✓	
5	Check that lighting equipments are correctly located and not obstructed by other equipments.	✓	
6	Check equipment fixings and mountings are secure.	✓	
7	Check equipment fixings and mountings are secure.	✓	
8	Check circuit numbering and correct identification label.	✓	
9	Earthing connections to the earthing grid to be checked.	✓	
10	Check lighting fixture inside & outside cleaning.	✓	
11	Check lighting fixture/junction box for sealing & tightening.	✓	

REMARKS AND OBSERVATIONS :

All tags must be Corrected & installed

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10000-Z-000-EK7-TMP-0012 (03/14)

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PRE-COMMISSIONING CHECK LIST
LIGHTING AND SMALL POWER MATERIAL
EL-23 A

PROJECT TITLE	: EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)		
PROJECT NUMBER	: 1251-100	**DISCIPLINE**	: Electrical
SYSTEM NAME	: Plant Area lighting and small Power System	**SYSTEM ID**	: 030-EL-014
SUB-SYSTEM NAME	: Plant Area lighting and small Power System	**SUB-SYSTEM ID**	: 030-EL-014
ITEM TAG No.	: 030-LPDP - 1	**AREA**	: 30
REF. DWGs/DOCs	:		

No.	DESCRIPTION	RESULT OK/NA/PL	PL ITEM No.
12	Junction boxes are well sealed and holes that are not used to be plugged with plugs suiting hazardous area classification.	✓	
13	Connection of photo-cells to be checked as per approved documents.	✓	
14	Check the lighting fixtures are installed in such a way that the maintenance become easily & safely.	✓	
15	Refer to small power distribution panel checks.	✓	
16	Contractor marked up drawings is available.	N/A	

REMARKS AND OBSERVATIONS :

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10000-Z-000-EK7-TMP-0012 (03/14)

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

12.11- Electrical Supplier Check Lists & Reports

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

13- Electrical Commissioning

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

13.01- Electrical -Commissioning Check Lists

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

13.02- Electrical Supplier Check Lists & Reports

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

14- Red Marked-up Drawings

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

14.01- P&ID

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

14.02- Instrumentation Drawings

System ID	030-EL-014
System Description	Plant Area lighting and small Power System

14.03- Electrical Drawings